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Aids to Navigation Service Force Mix 2000 Project

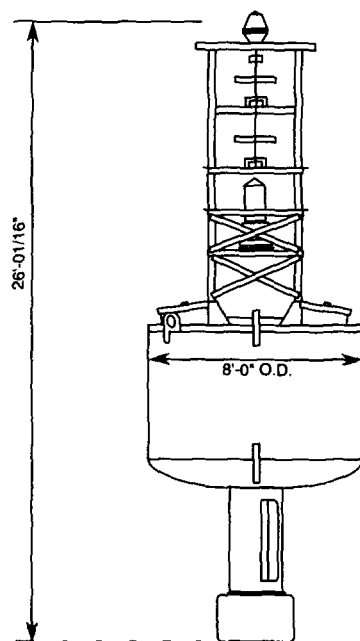
Volume II

Development and Application of an
Aids to Navigation Service Force
Mix Decision Support System

Aid Assignments and
Vessel Summary Reports

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Research and
Special Programs
Administration
John A. Volpe National
Transportation Systems Center
Cambridge, MA 02142-1093

June 1992

This document is available to the public
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U.S. Department
of Transportation
**United States
Coast Guard**



Office of Navigation Safety and Waterway Services
Washington, DC 20593

92-30745

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The Aids to Navigation Service Force Mix 2000 Project is documented in a Project Overview and three separately bound volumes. Volume I, "Development and Application of an Aids to Navigation Service Force Mix Decision Support System -- Final Report" documents the Volpe Center's analysis and development of the proposed replacement buoy tender fleet. Volume II, "Development and Application of an Aids to Navigation Service Force Mix Decision Support System -- Aid Assignments and Vessel Summary Reports" contains the DSS outputs associated with the findings of Volume I. Volume III, "Analysis of Multi-Mission Requirements and Development of Planning Factors for the Replacement Buoy Tender Fleet", documents the USCG's analysis and development of baseline multi-mission requirements of the replacement buoy tender fleet. All four documents are available from the National Technical Information Service, Springfield, VA 22161.

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13. ABSTRACT (Maximum 200 words) The Aids to Navigation (ATON) Service Force Mix (SFM) 2000 Project is documented in a Project Overview and three separately bound volumes. The Project Overview describes the purpose, approach, analysis, and results of the ATON SFM 2000 Project conducted by the USCG's Office of Navigation Safety and Waterway Services, Short Range Aids to Navigation Division. Volume I, "Development and Application of an Aids to Navigation Service Force Mix Decision Support System -- Final Report", documents the Volpe Center's analysis and development of the proposed replacement buoy tender fleet. The document describes current ATON operations, the concept, development, and operation of the Decision Support System (DSS), the data utilized by the DSS, validation of the DSS, and the proposed service force mix. Volume II, "Development and Application of an Aids to Navigation Service Force Mix Decision Support System -- Aid Assignments and Vessel Summary Reports", contains the DSS outputs associated with the findings of Volume I. Included are maps of the aid assignments for each vessel in both the current and proposed fleets and the associated one-page DSS summary printouts. Volume III, "Analysis of Multi-Mission Requirements and Development of Planning Factors for the Replacement Buoy Tender Fleet", documents the USCG's analysis and development of baseline multi-mission requirements of the replacement buoy tender fleet. The document describes buoy tender employment categories, historical tender employment data, the determination of underway hours per underway day, and projected impacts on multi-mission requirements resulting from alternative replacement fleet scenarios.					
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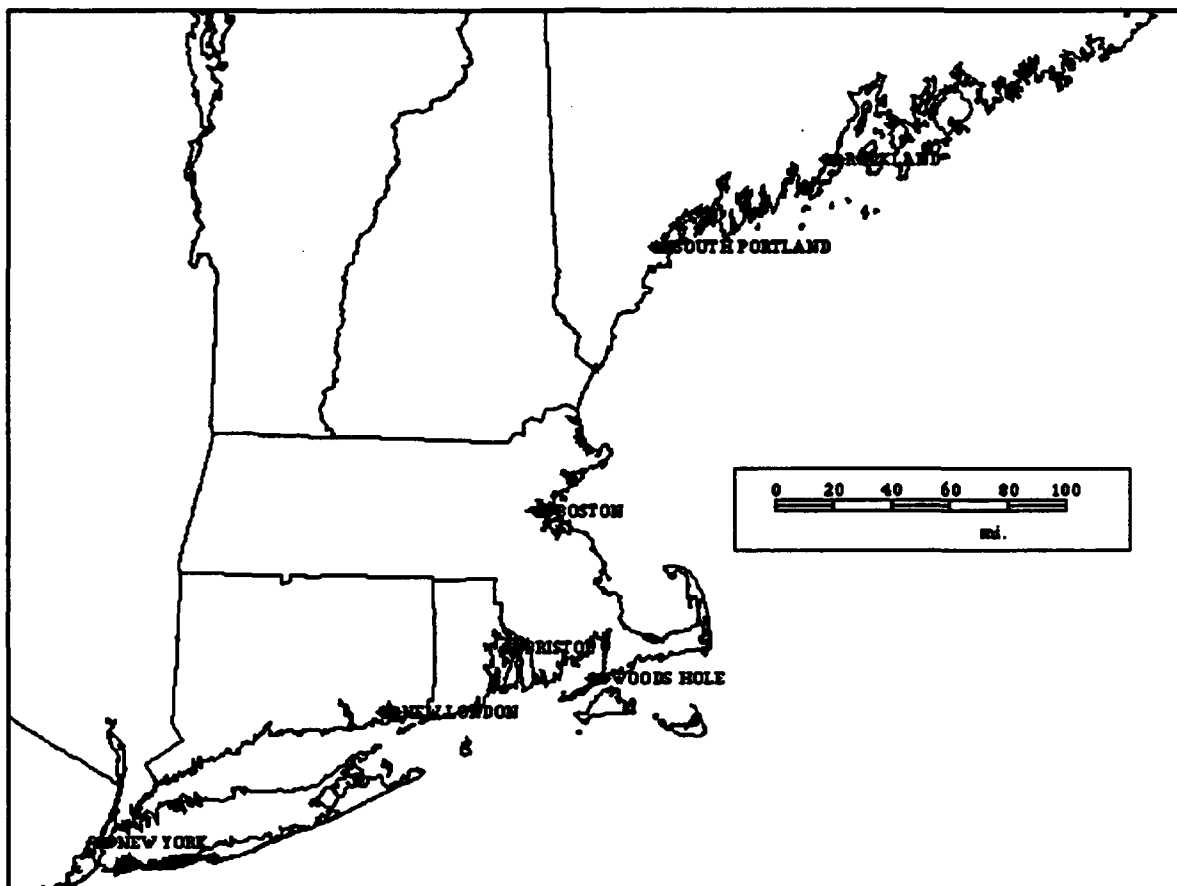
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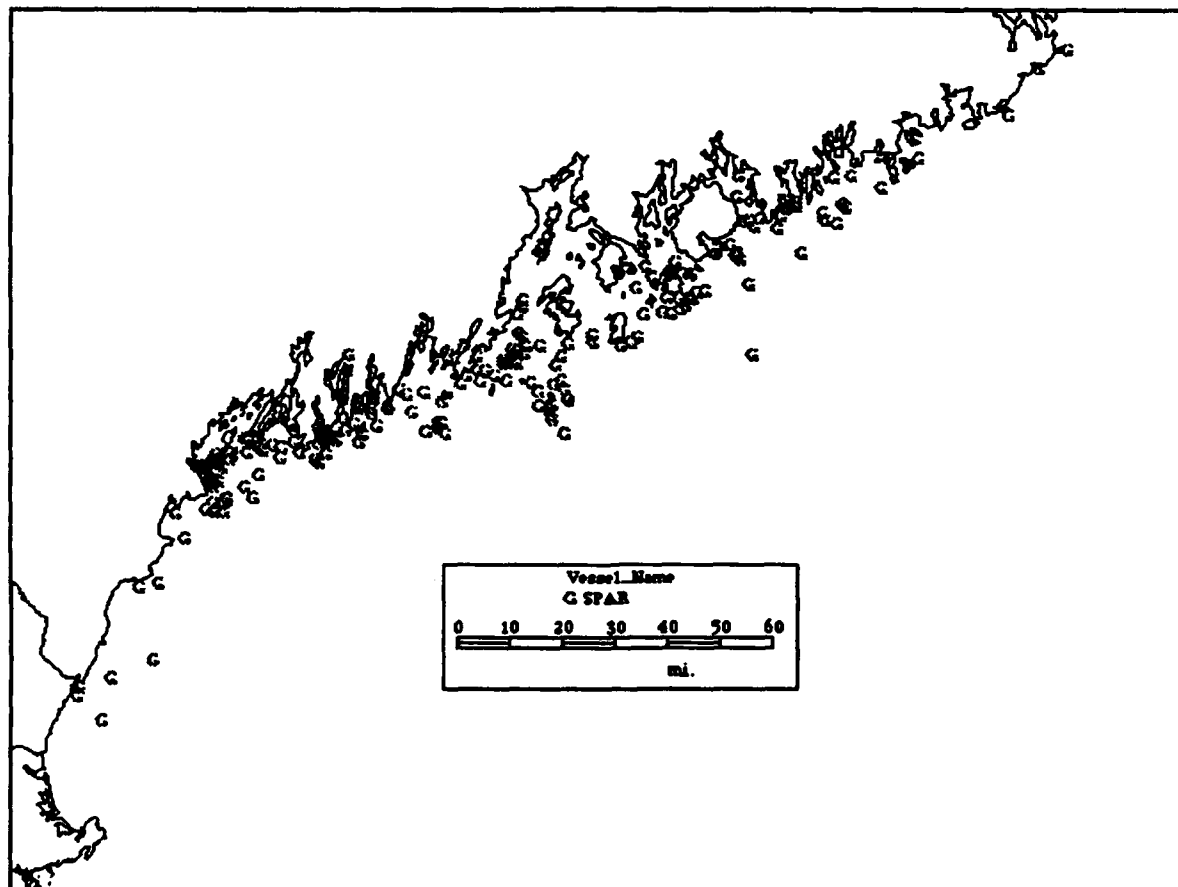
1. CURRENT FLEET VALIDATION RESULTS

1.1 DISTRICT 1



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navsids</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
BITTERSWEET	WOODS HOLE	WLB	133	848	1047
SORREL	NEW YORK	WLB	145	927	1040
SPAR	SOUTH PORTLAND	WLB	190	1251	1258
RED BEECH	NEW YORK	WLM	266	857	888
RED WOOD	NEW LONDON	WLM	262	907	1045
WHITE HEATH	BOSTON	WLM	294	1123	1072
WHITE LUPINE	ROCKLAND	WLM	417	1265	1089
WHITE SAGE	BRISTOL	WLM	274	981	946
		Totals	1981	8159	8385
		Avg	247.6	1020	1048

1.1.1 WLB Spar, South Portland, ME



12:30:56
Wednesday 1/8/1992

ATON SERVICE FORCE MIX DSS

SPAR.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SPAR
- Homeport SOUTH PORTLAND, ME
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

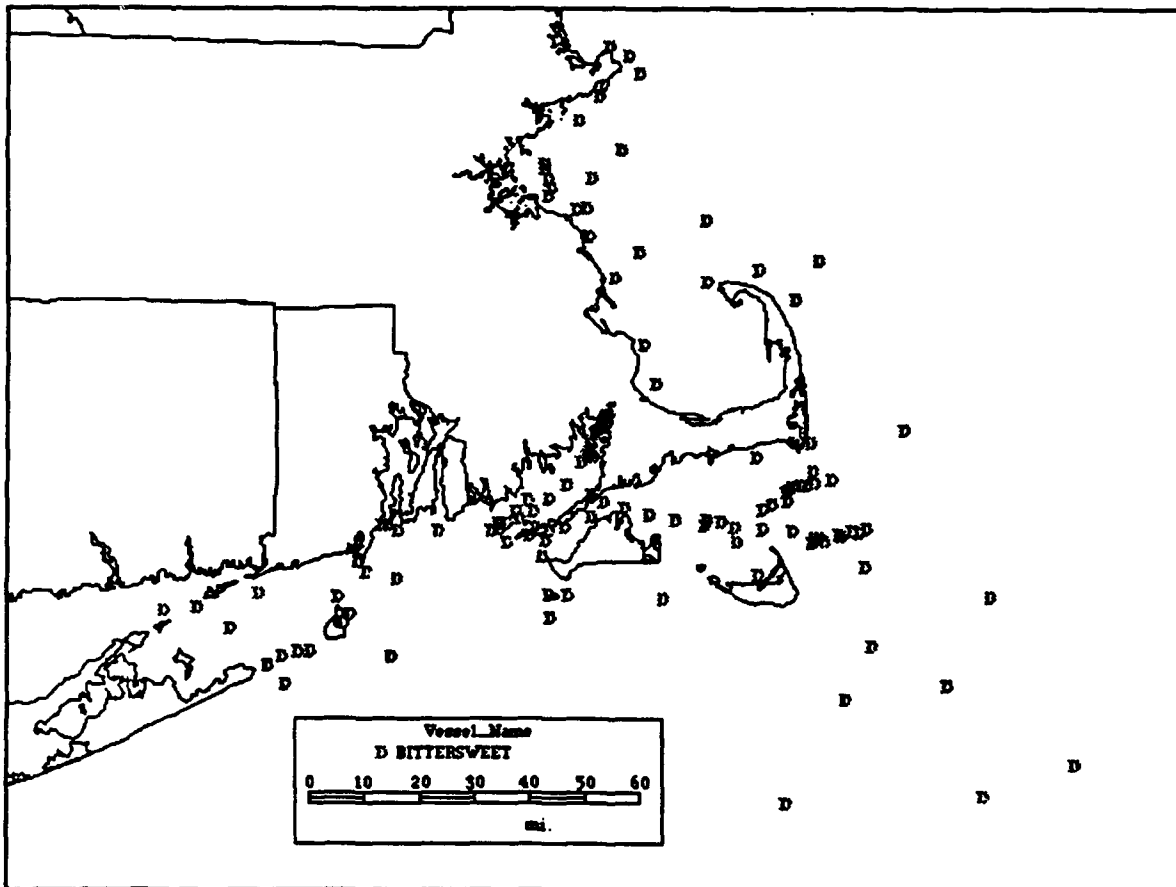
Total Nav aids assigned	= 191	(2 Seasonal)
Total Nav aids serviced	= 190	(2 Seasonal)
Total trips	= 12	
Underway days	= 37	
Deck Space Available	= 19008	
Deck Space Used	= 9138	(48.1% utilization)
Avg buoys / trip	= 16.0	
Avg underway days / trip	= 3.1	
Total transit time	= 208:35	
Total service time	= 220:44	
Total idle time	= 200:39	
Total time	= 629:58	-----
Total short transits	= 134	
Total length of short trips	= 27:31	
Additional prep/deprep time	= 39:29	-----
Avg service time / nav aid	= 1:09	
Avg transit time / nav aid	= 1:18	
Avg total time / nav aid	= 3:29	
Total discrepancies	= 16	
Computed discrepancy hours	= 55:47	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 250:00	-----
Same time servicing (subtract)	= 24:17	-----

Total ATON hours used = 950:58¹

Historical ATON hours used = 1258:00

¹plus 300 lighthouse maintenance hours

1.1.2 WLB Bittersweet, Woods Hole, MA



11:43:8

Monday 12/23/1991

ATON SERVICE FORCE MIX DSS

BTRSWEET.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB BITTERSWEET
- Homeport WOODS HOLE, MA
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

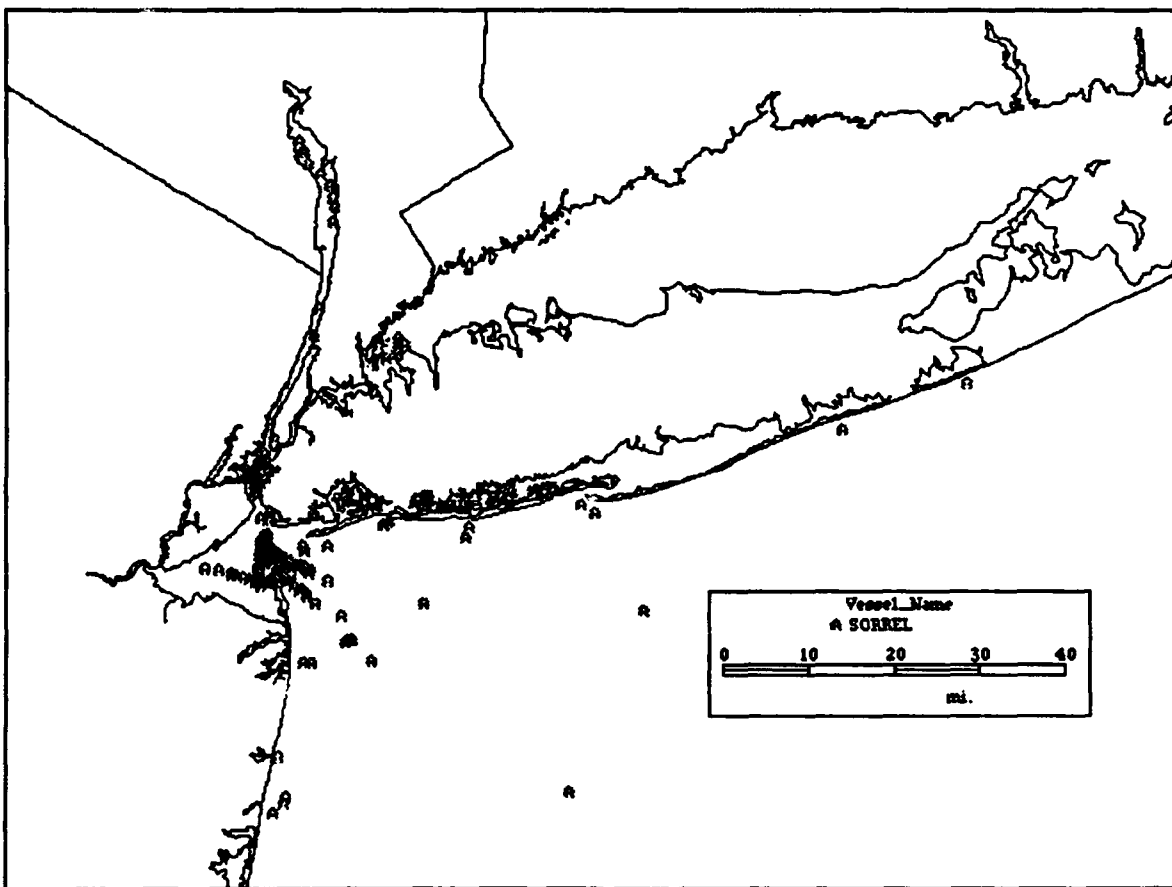
Total Nav aids assigned	= 134	(23 Seasonal)
Total Nav aids serviced	= 133	(23 Seasonal)
Total trips	= 13	
Underway days	= 22	
Deck Space Available	= 20592	
Deck Space Used	= 15162	(73.6% utilization)
Avg buoys / trip	= 12.0	
Avg underway days / trip	= 1.7	
Total transit time	= 119:28	
Total service time	= 92:31	
Total idle time	= 97:43	
Total time	= 309:42	-----
Total short transits	= 94	
Total length of short trips	= 17:44	
Additional prep/deprep time	= 29:16	-----
Avg service time / nav aid	= 0:36	
Avg transit time / nav aid	= 0:57	
Avg total time / nav aid	= 2:10	
Total discrepancies	= 25	
Computed discrepancy hours	= 54:20	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 155:07	-----
Same time servicing (subtract)	= 0:00	-----

Total ATON hours used = 548:25¹

Historical ATON hours used = 1047:00

¹plus 300 lighthouse maintenance hours

1.1.3 WLB Sorrel, New York, NY



12:1:47
Wednesday 1/8/1992

ATON SERVICE FORCE MIX DSS

SORREL.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SORREL
- Homeport NEW YORK, NY
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

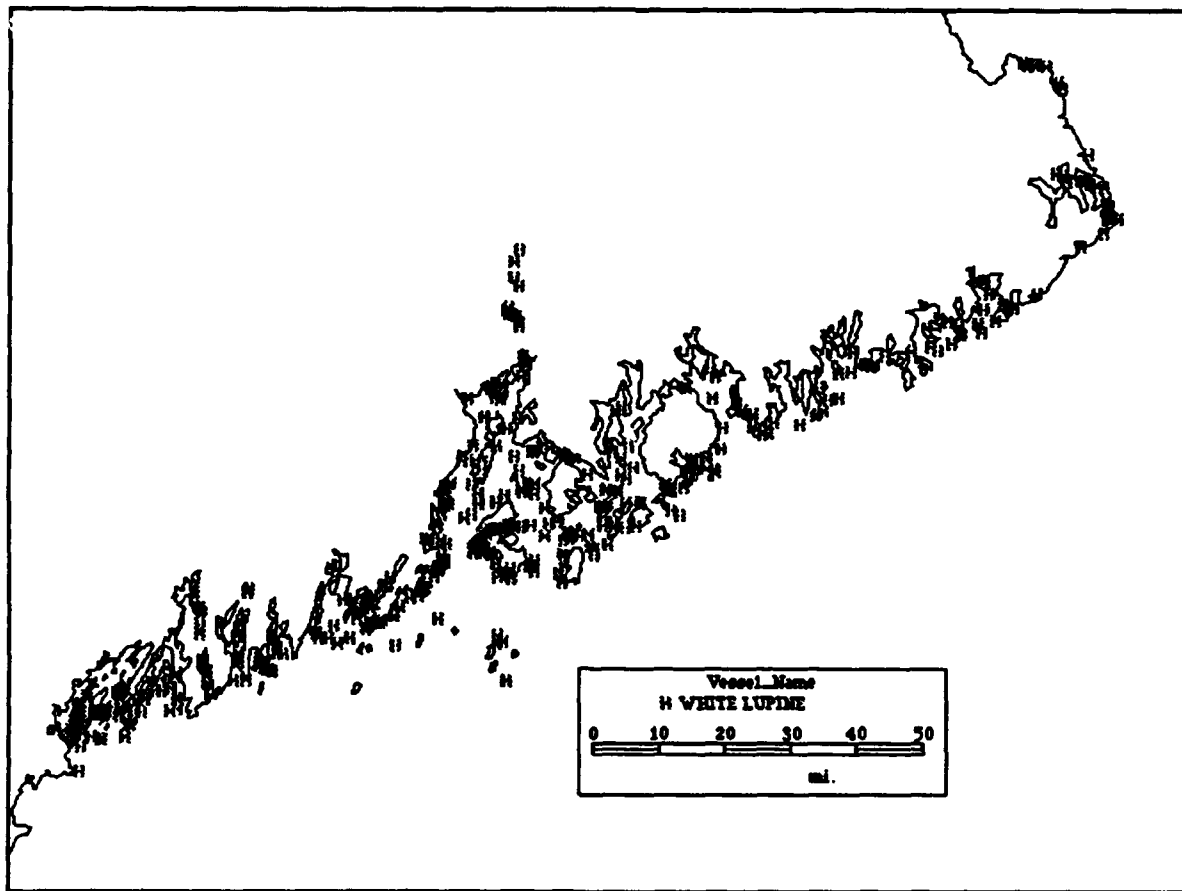
Total Nav aids assigned	= 146 (13 Seasonal)	
Total Nav aids serviced	= 145 (13 Seasonal)	
Total trips	= 9	
Underway days	= 23	
Deck Space Available	= 14256	
Deck Space Used	= 10890 (76.4% utilization)	
Avg buoys / trip	= 17.6	
Avg underway days / trip	= 2.6	
Total transit time	= 75:49	
Total service time	= 152:48	
Total idle time	= 133:13	
Total time	= 361:50	-----
Total short transits	= 127	
Total length of short trips	= 13:41	
Additional prep/deprep time	= 49:49	-----
Avg service time / nav aid	= 0:58	
Avg transit time / nav aid	= 0:48	
Avg total time / nav aid	= 2:36	
Total discrepancies	= 50	
Computed discrepancy hours	= 130:16	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 100:00	-----
Same time servicing (subtract)	= 15:17	-----

Total ATON hours used = 626:39¹

Historical ATON hours used = 1040:00

¹plus 300 lighthouse maintenance hours

1.1.4 WLM White Lupine, Rockland, ME



19:33:28

Friday 1/10/1992

ATON SERVICE FORCE MIX DSS

WTLUPINE.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM WHITE LUPINE
- Homeport ROCKLAND, ME
- 9.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 418 (1 Seasonal)
Total Navaids serviced	= 417 (1 Seasonal)
Total trips	= 21
Underway days	= 63
Deck Space Available	= 25200
Deck Space Used	= 7304.1 (29.0% utilization)
Avg buoys / trip	= 19.9
Avg underway days / trip	= 3.0
Total transit time	= 254:45
Total service time	= 338:35
Total idle time (not added)	= 516:38
Total time	= 593:20

Total short transits	= 345
Total length of short trips	= 48:47
Additional prep/deprep time	= 123:43

Avg service time / navaid	= 0:49
Avg transit time / navaid	= 0:54
Avg total time / navaid	= 1:43
Total discrepancies	= 86
Computed discrepancy hours	= 147:32

Additional Structure Visits	= 0
Additional Structure hours	= 0:00

Total weather hours	= 250:00

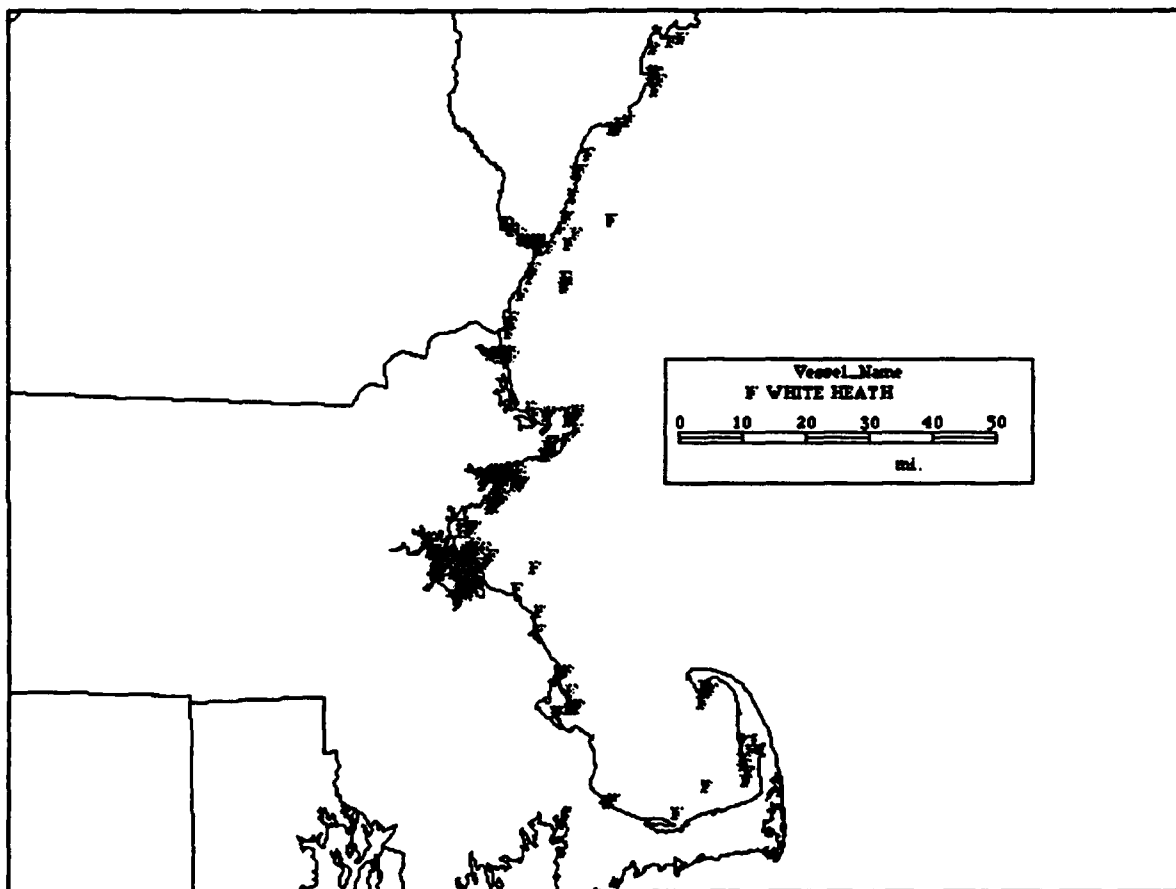
Same time servicing (subtract)	= 0:00

Total ATON hours used	= 1114:35 ¹

Historical ATON hours used	= 1089:00

¹plus 150 lighthouse maintenance hours

1.1.5 WLM White Heath, Boston, MA



12:14:27
Friday 1/10/1992

ATON SERVICE FORCE MIX DSS

WTHEATH.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM WHITE HEATH
- Homeport BOSTON, MA
- 9.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 295	(26 Seasonal)
Total Nav aids serviced	= 294	(26 Seasonal)
Total trips	= 23	
Underway days	= 54	
Deck Space Available	= 27600	
Deck Space Used	= 13057.7	(47.3% utilization)
Avg buoys / trip	= 13.9	
Avg underway days / trip	= 2.3	
Total transit time	= 178:18	
Total service time	= 322:51	
Total idle time (not added)	= 392:52	
Total time		= 501:09

Total short transits	= 267	
Total length of short trips	= 26:02	
Additional prep/deprep time		= 107:28

Avg service time / nav aid	= 1:01	
Avg transit time / nav aid	= 0:54	
Avg total time / nav aid	= 1:54	
Total discrepancies	= 68	
Computed discrepancy hours	= 129:12	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 236:00	

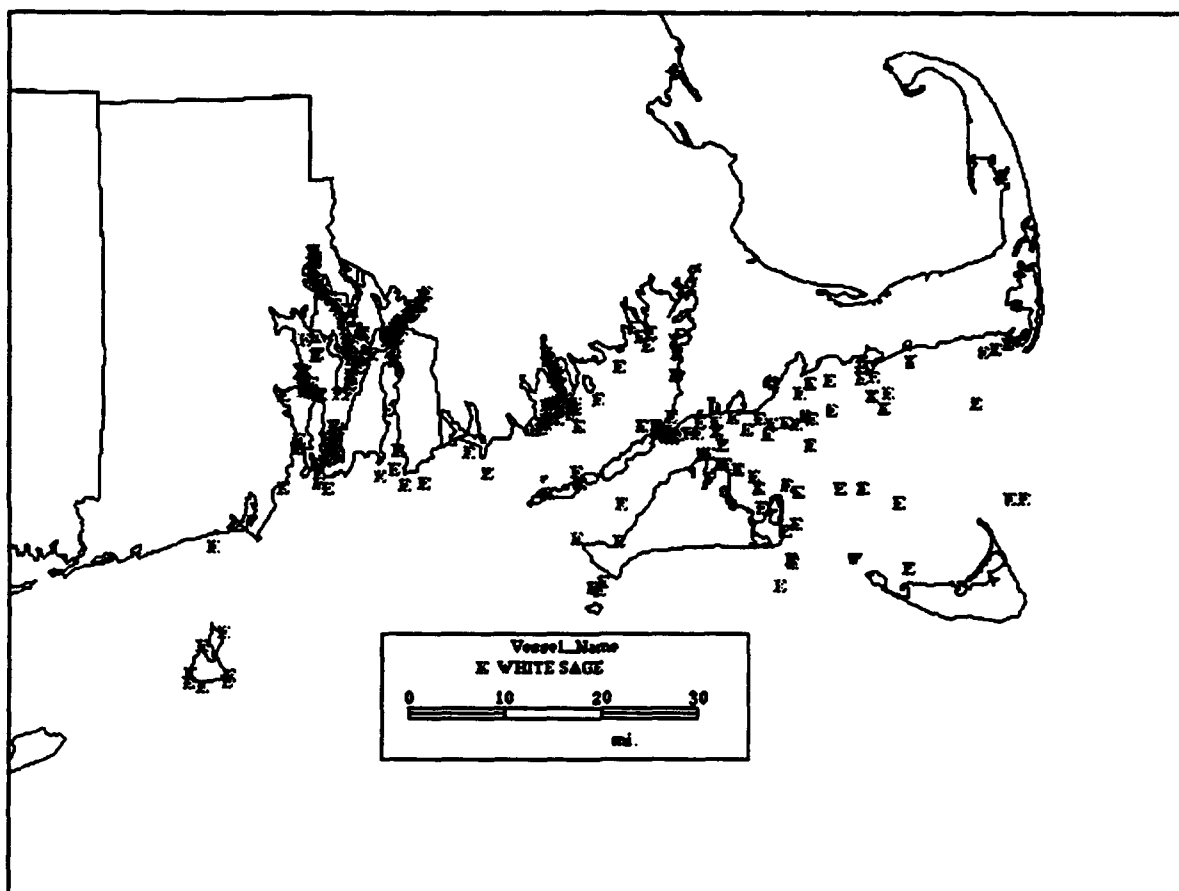
Same time servicing (subtract)	= 0:00	

Total ATON hours used	= 973:49 ¹	

Historical ATON hours used	= 1072:00	

¹plus 150 lighthouse maintenance hours

1.1.6 WLM White Sage, Bristol, RI



13:50:13
Monday 12/23/1991

ATON SERVICE FORCE MIX DSS

WTSAGE.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM WHITE SAGE
- Homeport BRISTOL, RI
- 9.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navais assigned	= 275 (31 Seasonal)	
Total Navais serviced	= 274 (31 Seasonal)	
Total trips	= 19	
Underway days	= 48	
Deck Space Available	= 22800	
Deck Space Used	= 18008.3 (79.0% utilization)	
Avg buoys / trip	= 16.1	
Avg underway days / trip	= 2.5	
Total transit time	= 176:14	
Total service time	= 260:47	
Total idle time (not added)	= 374:22	
Total time		= 437:00

Total short transits	= 252	
Total length of short trips	= 33:42	
Additional prep/deprep time		= 92:18

Avg service time / navaid	= 0:51	
Avg transit time / navaid	= 0:53	
Avg total time / navaid	= 1:44	
Total discrepancies	= 30	
Computed discrepancy hours		= 52:04

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 250:00

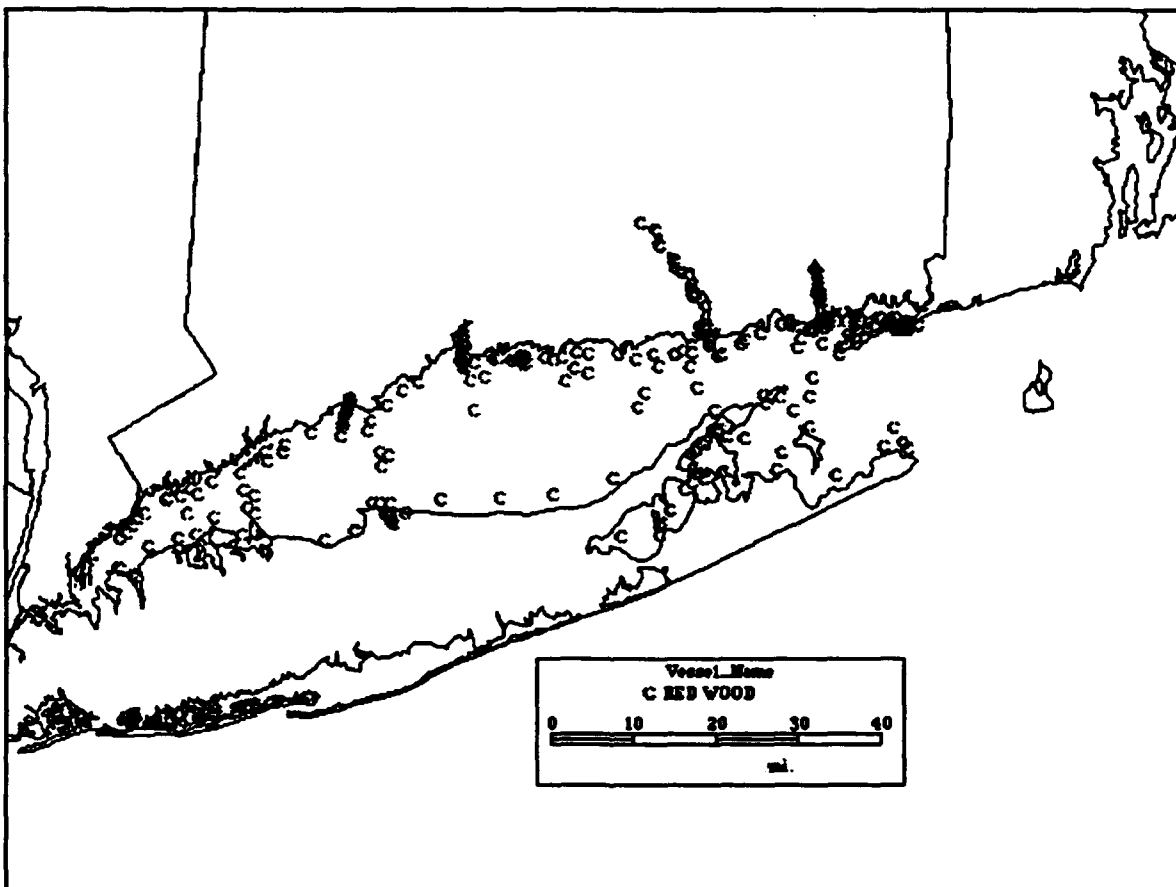
Same time servicing (subtract)		= 0:00

Total ATON hours used		= 981:22 ¹

Historical ATON hours used		= 946:00

¹plus 150 lighthouse maintenance hours

1.1.7 WLM Red Wood, New London, CT



12:9:5

Monday 12/23/1991

ATON SERVICE FORCE MIX DSS

RDWOOD.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM RED WOOD
- Homeport NEW LONDON, CT
- 11.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	=	263	(18 Seasonal)
Total Nav aids serviced	=	262	(18 Seasonal)
Total trips	=	16	
Underway days	=	44	
Deck Space Available	=	19200	
Deck Space Used	=	9358.2	(48.7% utilization)
Avg buoys / trip	=	17.5	
Avg underway days / trip	=	2.8	
Total transit time	=	137:14	
Total service time	=	274:57	
Total idle time (not added)	=	355:55	
Total time			= 412:11

Total short transits	=	237	
Total length of short trips	=	28:22	
Additional prep/deprep time	=	90:08	

Avg service time / nav aid	=	0:59	
Avg transit time / nav aid	=	0:49	
Avg total time / nav aid	=	1:48	
Total discrepancies	=	20	
Computed discrepancy hours	=	35:53	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	260:00	

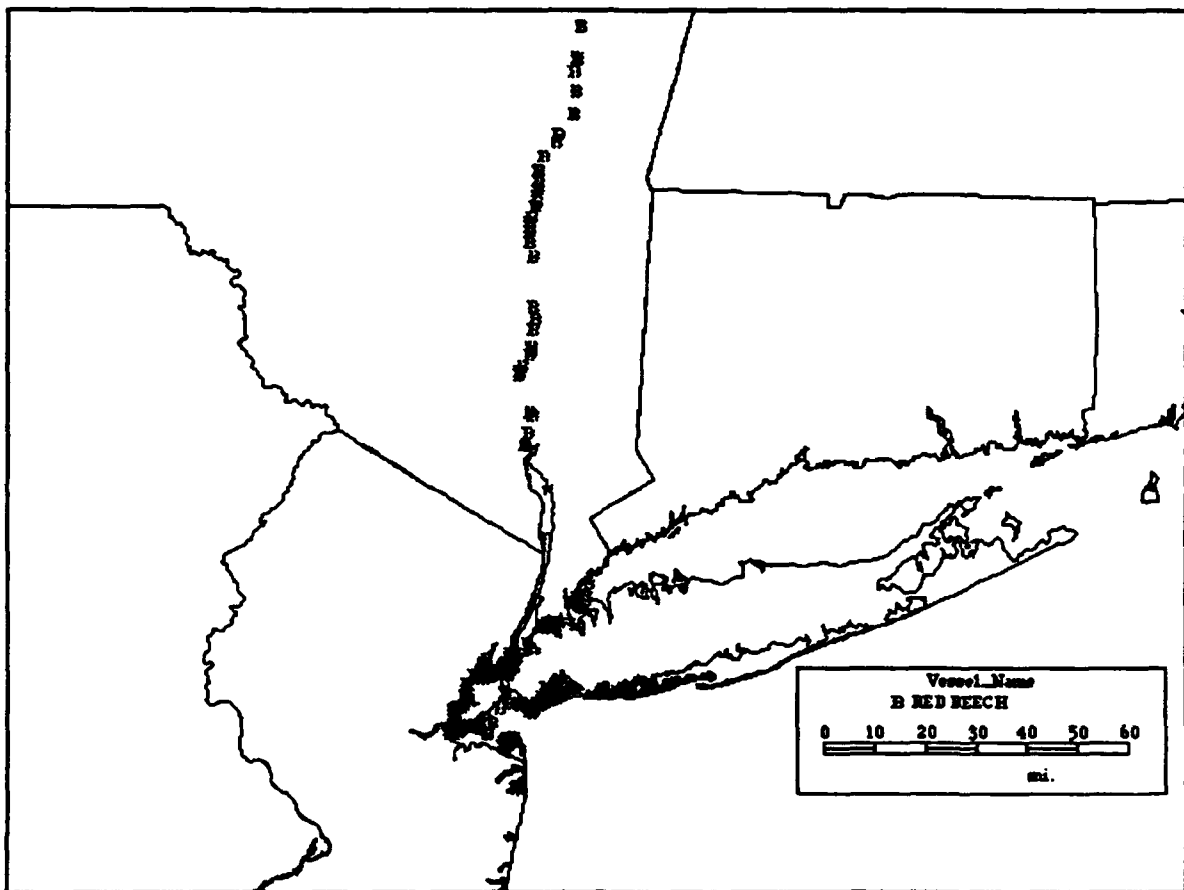
Same time servicing (subtract)	=	41:15	

Total ATON hours used	=	756:57 ¹	

Historical ATON hours used	=	1045:00	

¹plus 150 lighthouse maintenance hours

1.1.8 WLM Red Beech, New York, NY



14:35:37
Wednesday 1/8/1992

ATON SERVICE FORCE MIX DSS

RDBEECH.REP

VESSEL SUMMARY REPORT

Platform Characteristics

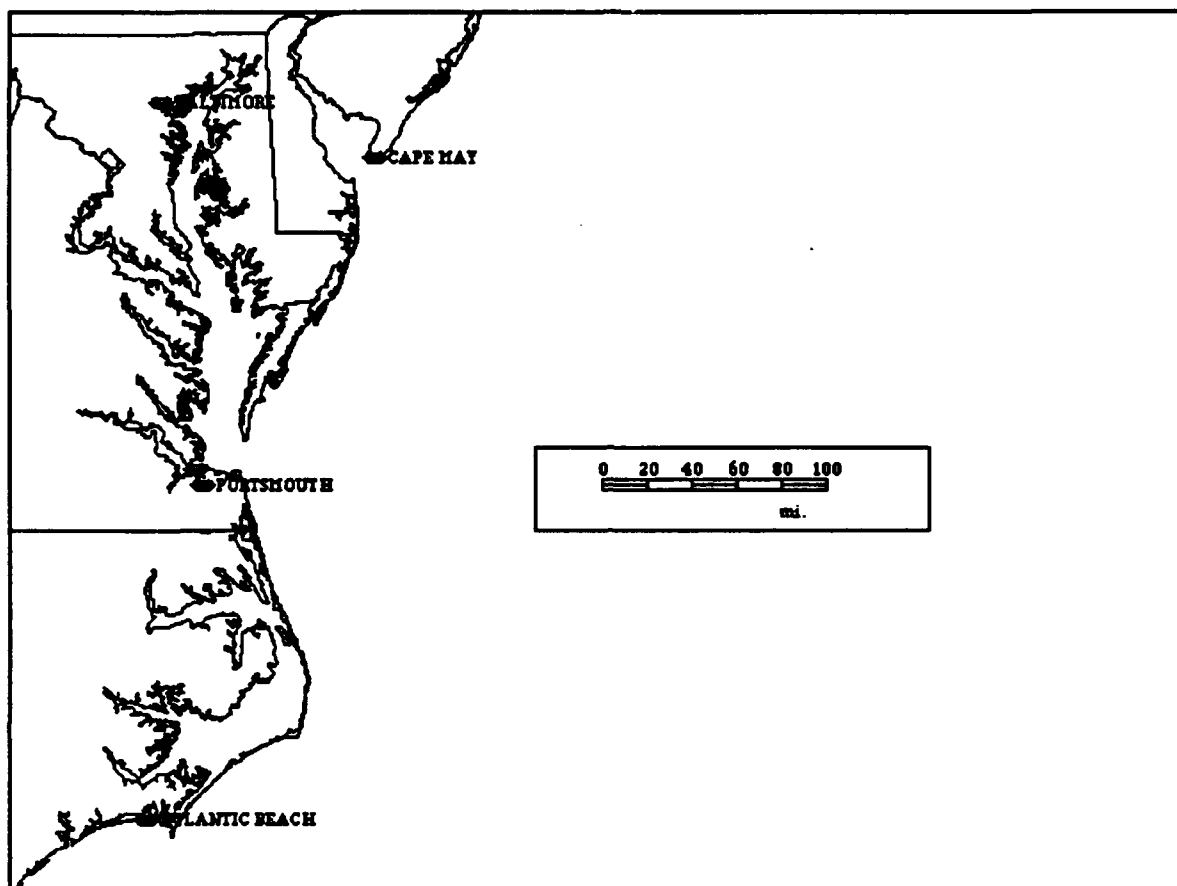
- WLM RED BEECH
- Homeport NEW YORK, NY
- 11.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 267	(33 Seasonal)
Total Nav aids serviced	= 266	(33 Seasonal)
Total trips	= 21	
Underway days	= 58	
Deck Space Available	= 25200	
Deck Space Used	= 11914.4	(47.3% utilization)
Avg buoys / trip	= 14.2	
Avg underway days / trip	= 2.8	
Total transit time	= 154:42	
Total service time	= 388:12	
Total idle time (not added)	= 462:28	
Total time	= 542:54	-----
Total short transits	= 266	
Total length of short trips	= 22:35	
Additional prep/deprep time	= 110:25	-----
Avg service time / nav aid	= 1:18	
Avg transit time / nav aid	= 0:53	
Avg total time / nav aid	= 2:11	
Total discrepancies	= 59.9999	
Computed discrepancy hours	= 130:48	-----
Additional Structure Visits	= 3.8	
Additional Structure hours	= 7:33	-----
Total weather hours	= 99:40	-----
Same time servicing (subtract)	= 185:08	-----
Total ATON hours used	= 706:12 ¹	*****
Historical ATON hours used	= 888:00	*****

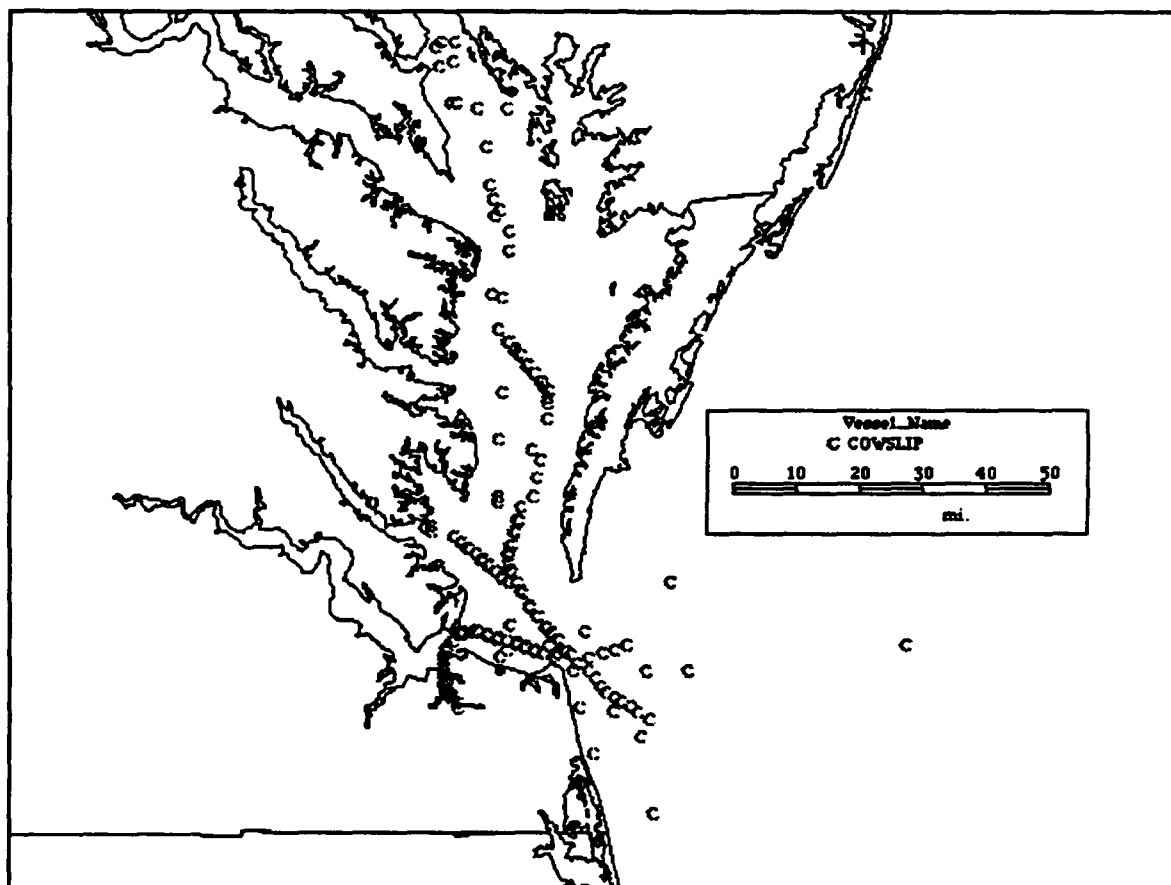
¹plus 150 lighthouse maintenance hours

1.2 DISTRICT 5



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navaid</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
COWSLIP	PORTSMOUTH	WLB	178	1179	1151
GENTIAN	ATLANTIC BEACH	WLB	85	751	997
HORNBEAM	CAPE MAY	WLB	91	907	905
RED BIRCH	CAPE MAY	WLM	311	896	1071
RED CEDAR	PORTSMOUTH	WLM	337	1008	1286
RED OAK	PHILADELPHIA	WLM	245	861	1084
		Totals	1247	5578	6494
		Avg	207.8	930	1082

1.2.1 WLB Cowslip, Portsmouth, VA



13:12:20
Friday 12/20/1991

ATON SERVICE FORCE MIX DSS

COWSLIP.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

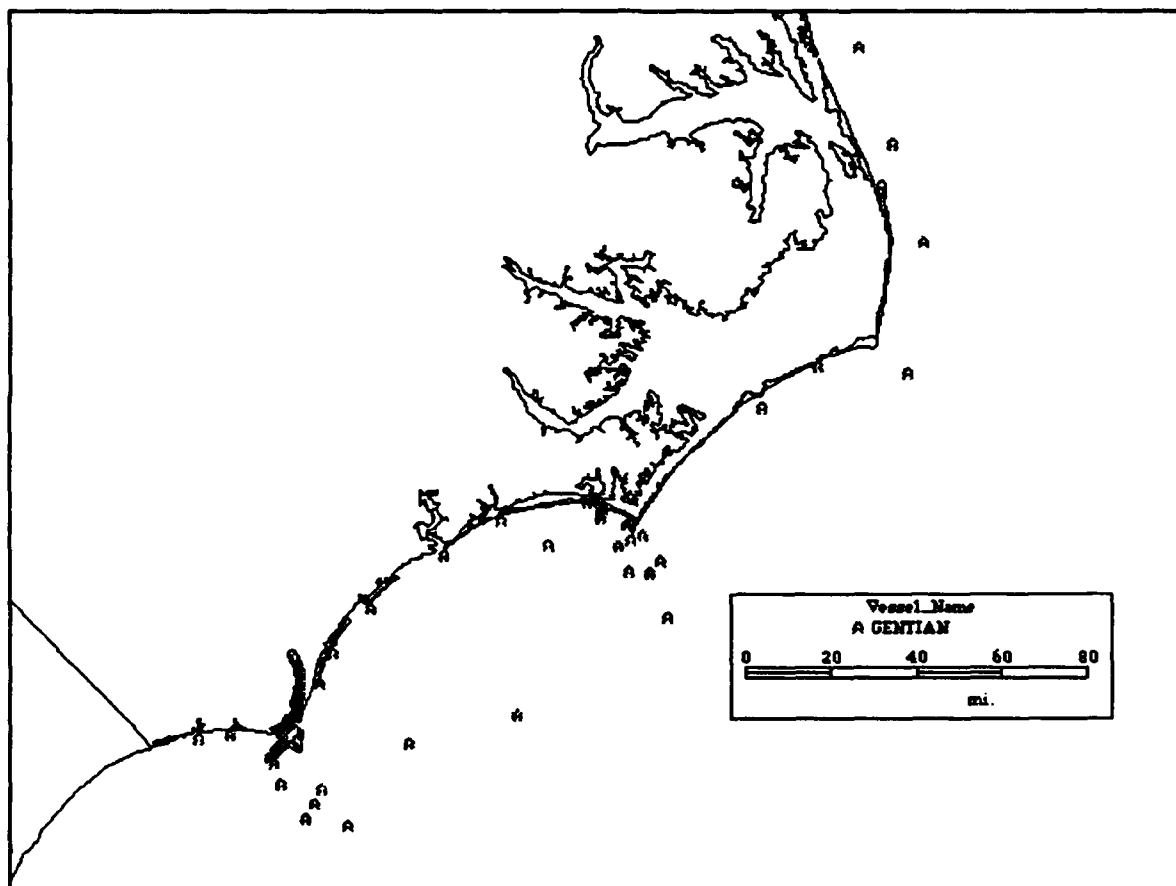
- WLB 'COWSLIP
- Homeport PORTSMOUTH, VA
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1992 at 6:00
(Window size = 0 days, Step size = 5 days)

Summary Statistics

Total Navais assigned	= 179 (18 Seasonal)	
Total Navais serviced	= 178 (18 Seasonal)	
Total trips	= 18	
Underway days	= 41	
Deck Space Available	= 28512	
Deck Space Used	= 23034.9 (80.8% utilization)	
Avg buoys / trip	= 10.9	
Avg underway days / trip	= 2.3	
Total transit time	= 232:18	
Total service time	= 214:54	
Total idle time	= 185:09	
Total time	= 632:20	-----
Total short transits	= 130	
Total length of short trips	= 15:32	
Additional prep/deprep time	= 49:28	-----
Avg service time / navaid	= 1:06	
Avg transit time / navaid	= 1:26	
Avg total time / navaid	= 3:29	
Total discrepancies	= 53.4	
Computed discrepancy hours	= 185:46	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 40:00	-----
Same time servicing (subtract)	= 64:28	-----
Total ATON hours used	= 843:06 ¹	=====
Historical ATON hours used	= 1151:00	=====

¹plus 336 lighthouse maintenance hours

1.2.2 WLB Gentian, Atlantic Beach, NC



17:5:5

Wednesday 12/18/1991

ATON SERVICE FORCE MIX DSS

GENTIAN.REP

VESSEL SUMMARY REPORT

Platform Characteristics

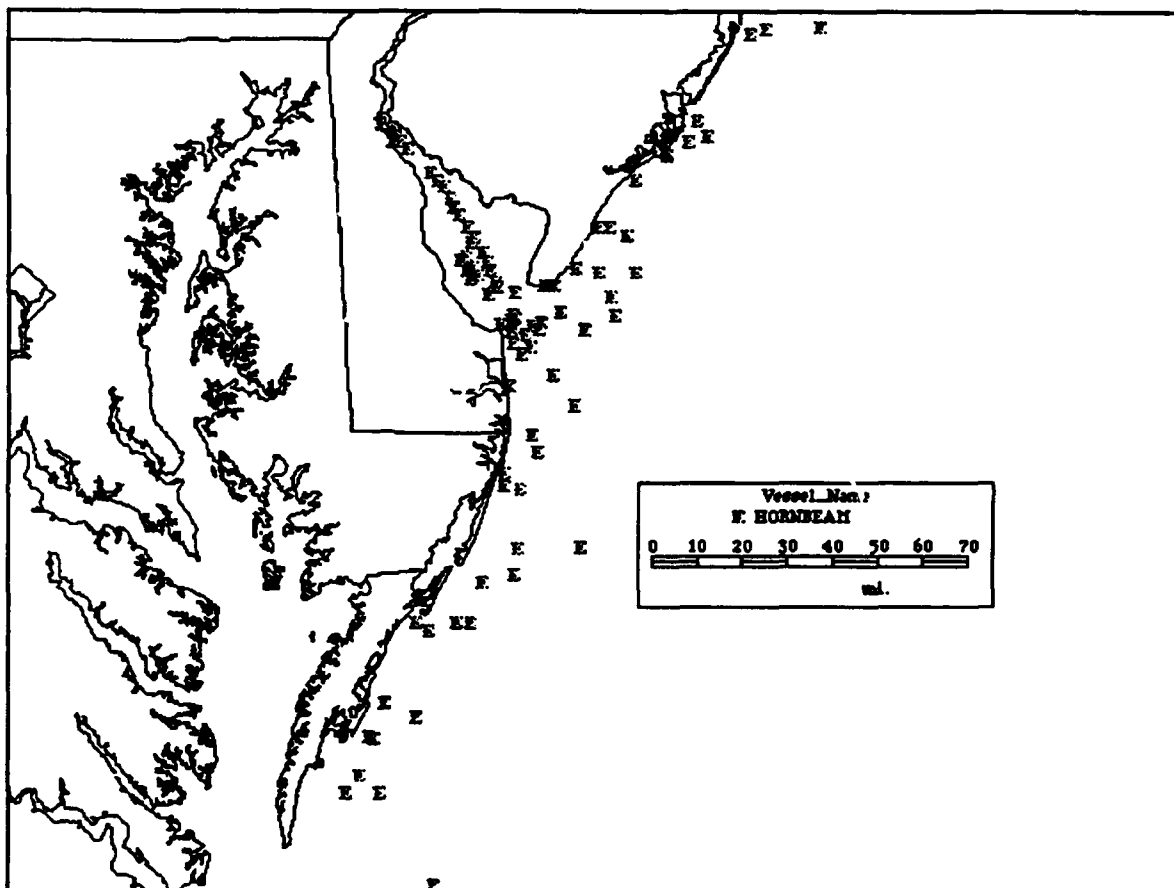
- WLB GENTIAN
- Homeport ATLANTIC BEACH, NC
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 86	(0 Seasonal)
Total Navaids serviced	= 85	(0 Seasonal)
Total trips	= 5	
Underway days	= 19	
Deck Space Available	= 7920	
Deck Space Used	= 2140.5	(27.0% utilization)
Avg buoys / trip	= 17.0	
Avg underway days / trip	= 3.8	
Total transit time	= 111:34	
Total service time	= 96:17	
Total idle time	= 100:45	
Total time	= 308:36	-----
Total short transits	= 52	
Total length of short trips	= 6:18	
Additional prep/deprep time	= 19:42	-----
Avg service time / navaid	= 1:08	
Avg transit time / navaid	= 1:33	
Avg total time / navaid	= 3:52	
Total discrepancies	= 19.3	
Computed discrepancy hours	= 74:30	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 12:00	-----
Same time servicing (subtract)	= 0:58	-----
Total ATON hours used	= 413:58 ¹	-----
Historical ATON hours used	= 997:00	-----

¹plus 336 lighthouse maintenance hours

1.2.3 WLB Hornbeam, Cape May, NJ



11:2:39

Thursday 12/19/1991

ATON SERVICE FORCE MIX DSS

HORNBEAM.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB HORNBEAM
- Homeport CAPE MAY, NJ
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1992 at 6:00
(Window size = 0 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 92 (1 Seasonal)	
Total Nav aids serviced	= 91 (1 Seasonal)	
Total trips	= 7	
Underway days	= 18	
Deck Space Available	= 11088	
Deck Space Used	= 4074	(36.7% utilization)
Avg buoys / trip	= 13.1	
Avg underway days / trip	= 2.6	
Total transit time	= 85:55	
Total service time	= 113:18	
Total idle time	= 106:24	
Total time		= 305:36

Total short transits	= 49	
Total length of short trips	= 11:18	
Additional prep/deprep time		= 13:12

Avg service time / nav aid	= 1:14	
Avg transit time / nav aid	= 1:05	
Avg total time / nav aid	= 3:28	
Total discrepancies	= 33.9	
Computed discrepancy hours		= 117:28

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 135:00

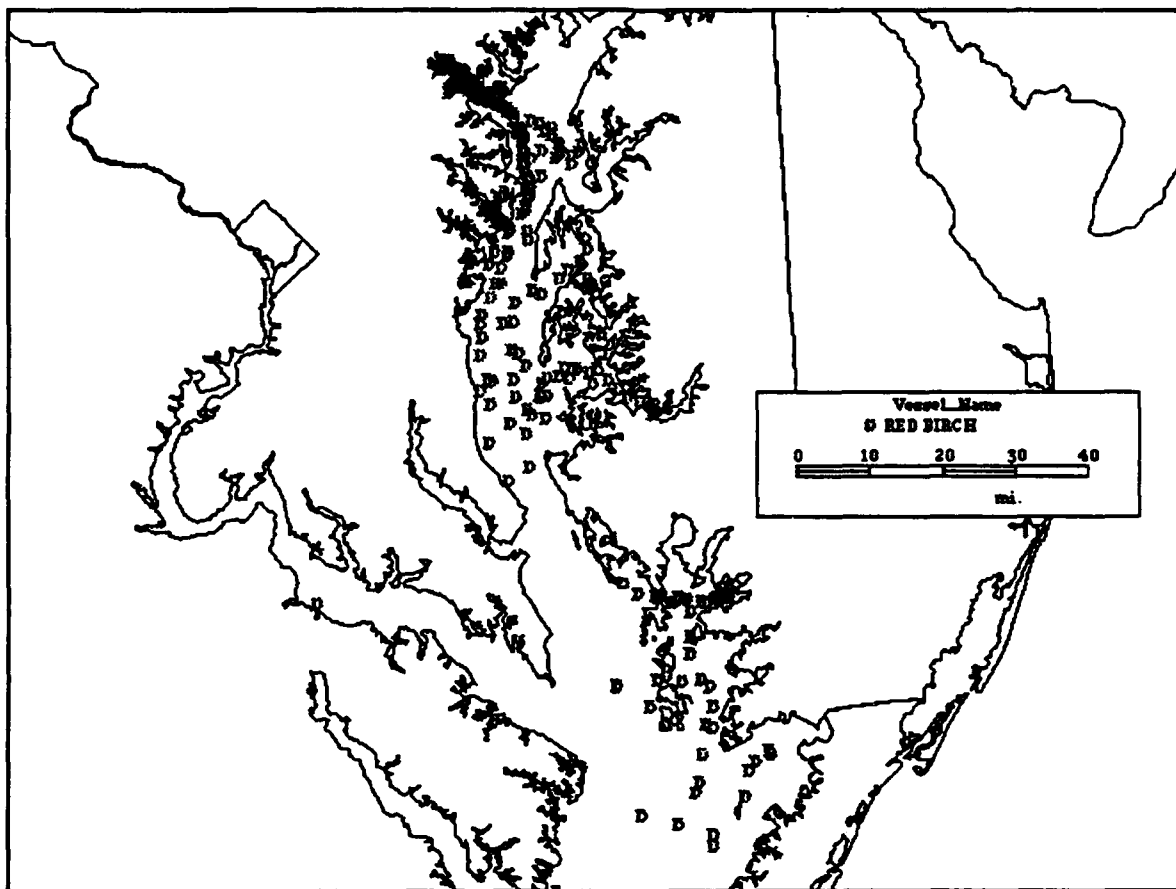
Same time servicing (subtract)		= 0:00

Total ATON hours used		= 571:16 ¹

Historical ATON hours used		= 905:00

¹plus 336 lighthouse maintenance hours

1.2.4 WLM Red Birch, Baltimore, MD



14:7:58
Friday 12/20/1991

ATON SERVICE FORCE MIX DSS

RDBIRCH.REP

VESSEL SUMMARY REPORT

Platform Characteristics

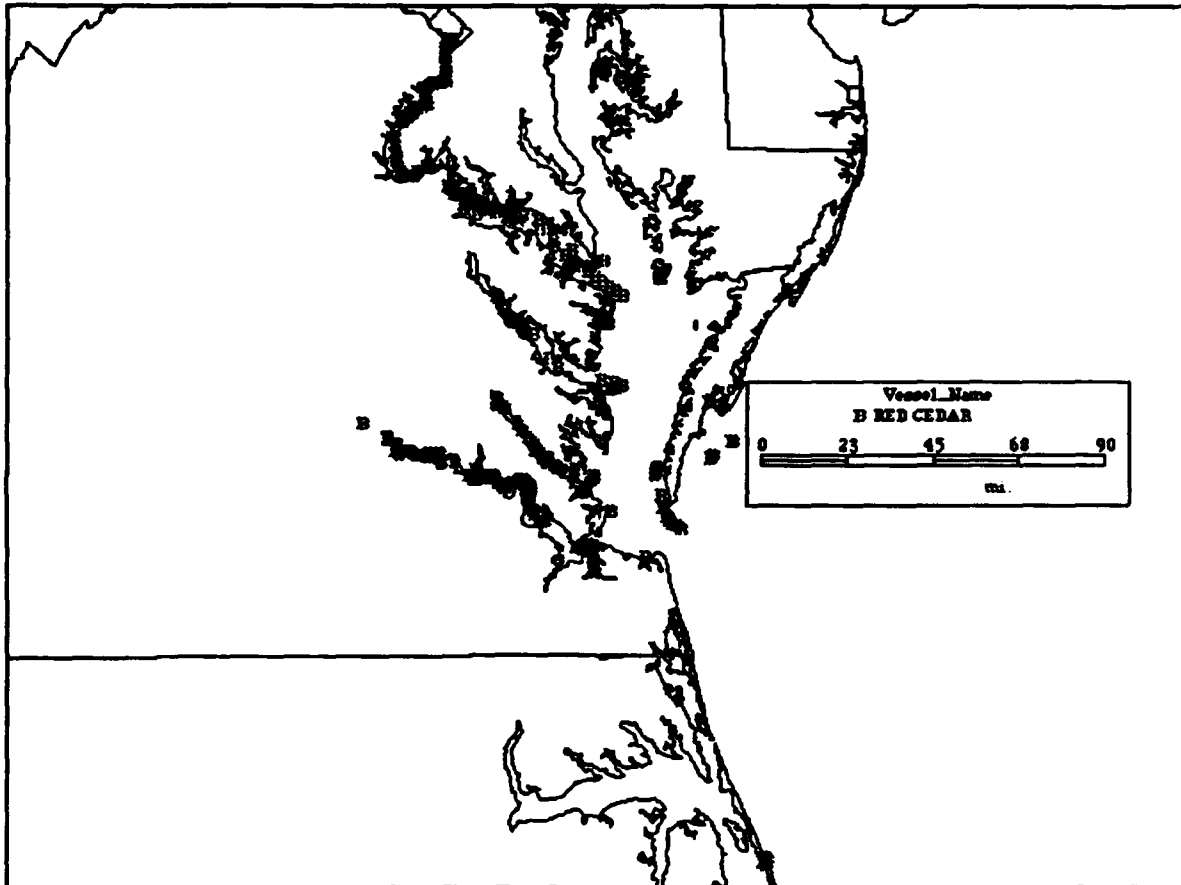
- WLM RED BIRCH
- Homeport BALTIMORE, MD
- 11.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:22
- Dispatch Wednesday 1/1/1992 at 6:00
(Window size = 0 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 312	(9% Seasonal)
Total Nav aids serviced	= 311	(9% Seasonal)
Total trips	= 43	
Underway days	= 66	
Deck Space Available	= 51600	
Deck Space Used	= 38572.4	(74.8% utilization)
Avg buoys / trip	= 9.4	
Avg underway days / trip	= 1.5	
Total transit time	= 280:32	
Total service time	= 237:05	
Total idle time (not added)	= 289:44	
Total time	= 517:37	
Total short transits	= 301	
Total length of short trips	= 28:11	
Additional prep/deprep time	= 83:11	
Avg service time / nav aid	= 0:35	
Avg transit time / nav aid	= 0:54	
Avg total time / nav aid	= 1:29	
Total discrepancies	= 25	
Computed discrepancy hours	= 37:05	
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	
Total weather hours	= 90:00	
Same time servicing (subtract)	= 0:00	
Total ATON hours used	= 727:53 ¹	*****
Historical ATON hours used	= 1071:00	*****

¹plus 168 lighthouse maintenance hours

1.2.5 WLM Red Cedar, Portsmouth, VA



20:13:18
Wednesday 1/8/1992

ATON SERVICE FORCE MIX DSS

RD CEDAR.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM RED CEDAR
- Homeport PORTSMOUTH, VA
- 11.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navais assigned	=	338 (55 Seasonal)	
Total Navais serviced	=	337 (55 Seasonal)	
Total trips	=	27	
Underway days	=	65	
Deck Space Available	=	32400	
Deck Space Used	=	26935.3 (83.1% utilization)	
Avg buoys / trip	=	14.5	
Avg underway days / trip	=	2.4	
Total transit time	=	432:34	
Total service time	=	259:43	
Total idle time (not added)	=	490:33	
Total time			= 692:17

Total short transits	=	245	
Total length of short trips	=	18:31	
Additional prep/deprep time	=		42:44

Avg service time / nauid	=	0:40	
Avg transit time / nauid	=	1:13	
Avg total time / nauid	=	1:53	
Total discrepancies	=	25	
Computed discrepancy hours	=		46:53

Additional Structure Visits	=	0	
Additional Structure hours	=		0:00

Total weather hours	=		175:00

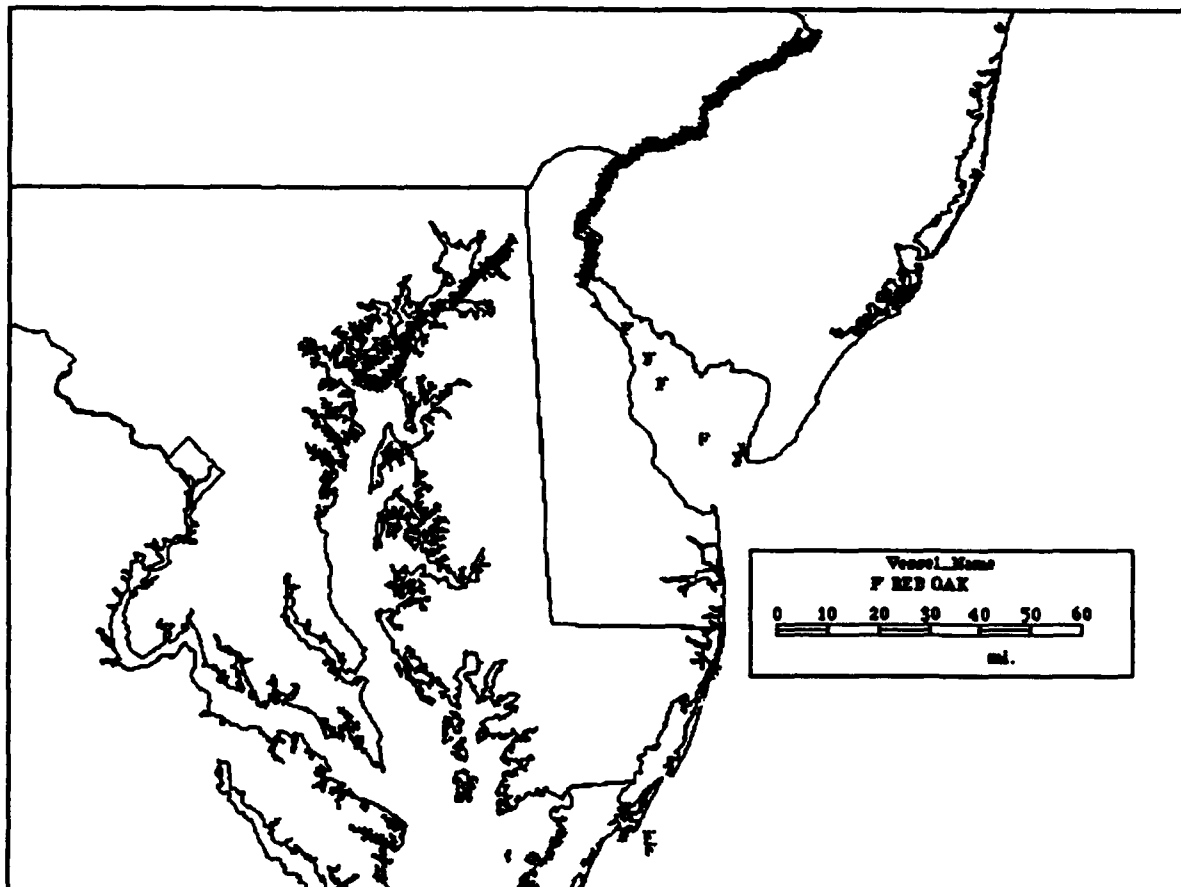
Same time servicing (subtract)	=		116:52

Total ATON hours used	=	840:01 ¹	

Historical ATON hours used	=	1286:00	

¹plus 168 lighthouse maintenance hours

1.2.6 WLM Red Oak, Philadelphia, PA



16:0:43
Friday 12/20/1991

ATON SERVICE FORCE MIX DSS

RDOAK.REP

VESSEL SUMMARY REPORT

Platform Characteristics

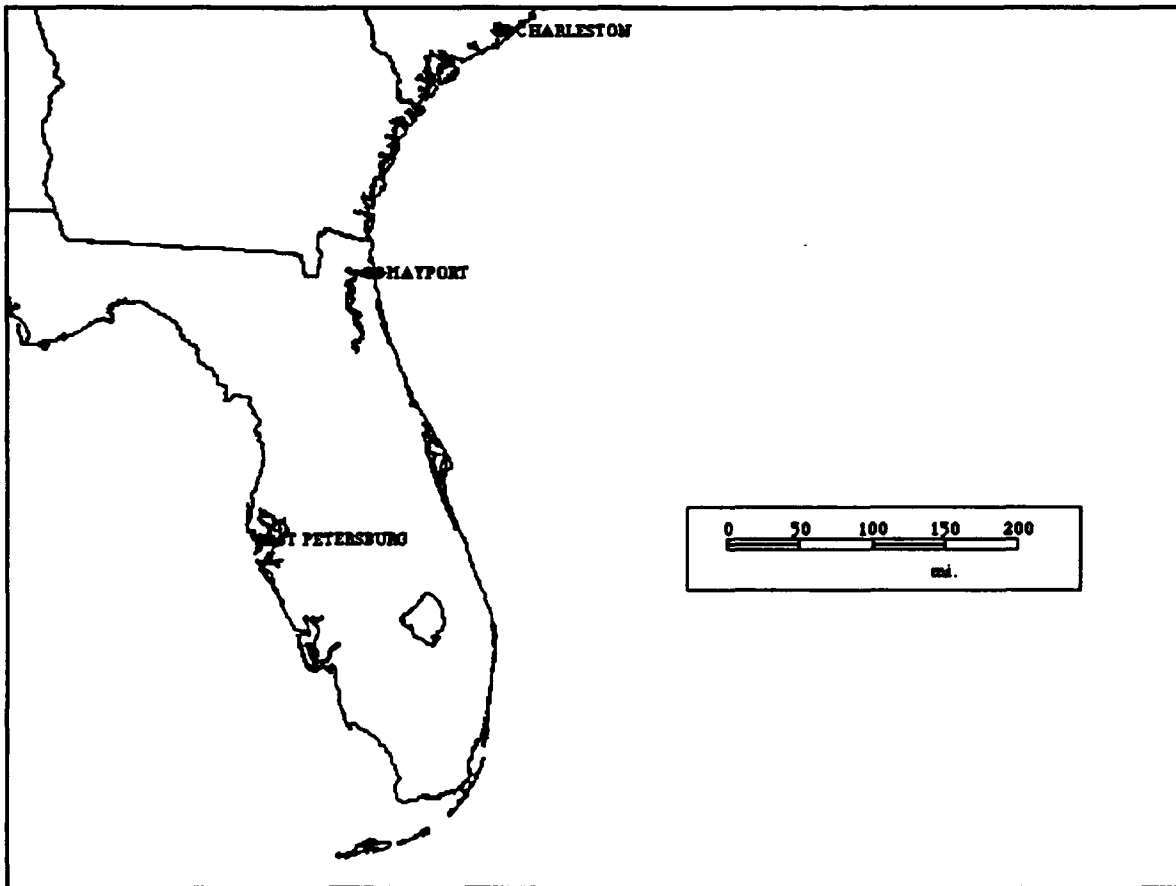
- WLM RED OAK
- Homeport PHILADELPHIA, PA
- 11.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Wednesday 1/1/1992 at 6:00
(Window size = 0 days, Step size = 3 days)

Summary Statistics

Total Nav aids assigned	= 246	(64 Seasonal)
Total Nav aids serviced	= 245	(64 Seasonal)
Total trips	= 35	
Underway days	= 60	
Deck Space Available	= 42000	
Deck Space Used	= 31850.1	(75.8% utilization)
Avg buoys / trip	= 8.8	
Avg underway days / trip	= 1.7	
Total transit time	= 342:31	
Total service time	= 213:33	
Total idle time (not added)	= 325:06	
Total time	= 556:04	-----
Total short transits	= 229	
Total length of short trips	= 16:42	
Additional prep/deprep time	= 40:33	-----
Avg service time / nav aid	= 0:41	
Avg transit time / nav aid	= 1:14	
Avg total time / nav aid	= 1:56	
Total discrepancies	= 25	
Computed discrepancy hours	= 48:16	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 80:00	-----
Same time servicing (subtract)	= 32:02	-----
Total ATON hours used	= 692:51 ¹	*****
Historical ATON hours used	= 1084:00	*****

¹plus 168 lighthouse maintenance hours

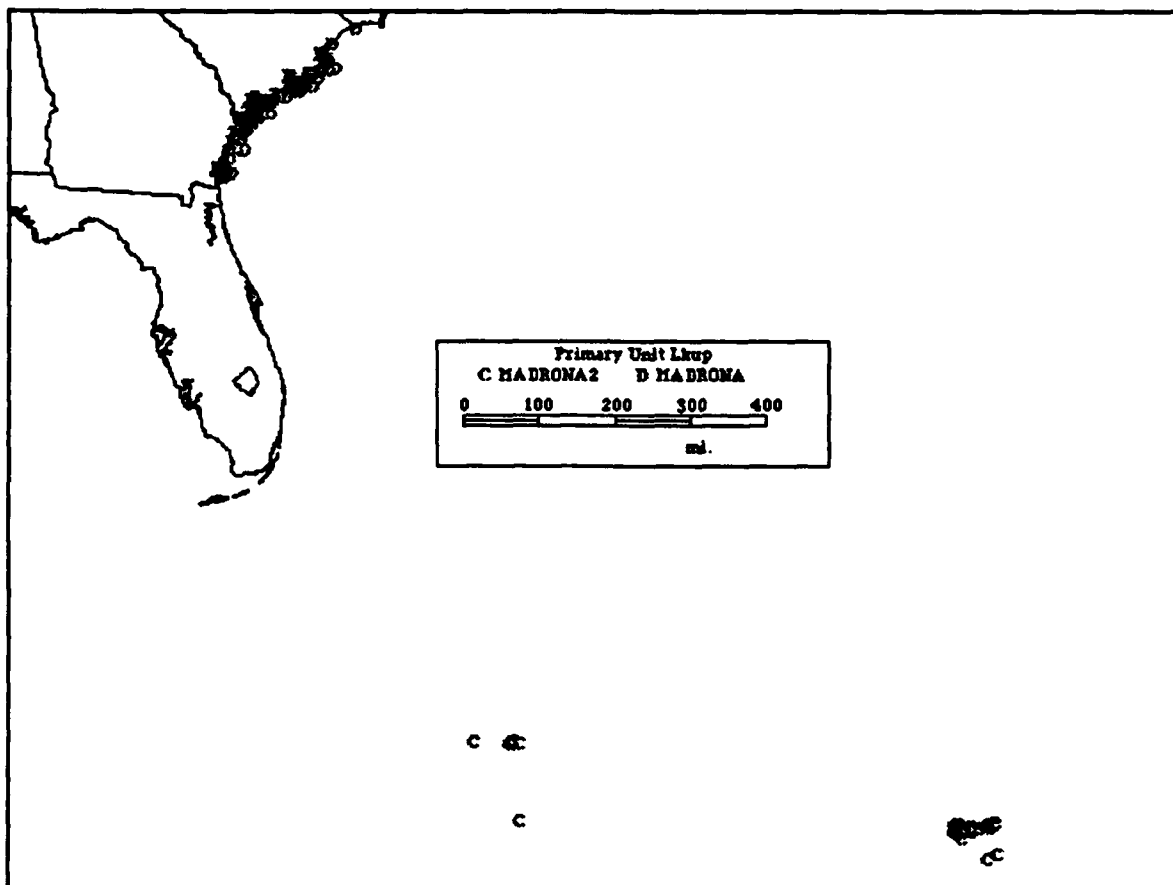
1.3 DISTRICT 7



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navaid</u>	<u>DSS</u> <u>Hours</u>	<u>Historical</u> <u>Hours</u>
LAUREL	MAYPORT	WLB	166	1182	842
LAUREL-SOUTH	MAYPORT	WLB	175	513	513
MADRONA	CHARLESTON	WLB	195	717	942
MADRONA-SOUTH	CHARLESTON	WLB	125	516	516
WHITE SUMAC	ST PETERSBURG	WLM	213	1257	1248
		Totals	874	4185	4061
		Avg	291.3	1395	1354

1.3.1 WLB Charleston, SC

Note: The WLB Madrona was partitioned into WLB Madrona and WLB Madrona2 (South) to account for different concepts of operations.



15:47:49

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MADRONA.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB MADRONA
- Homeport CHARLESTON, SC
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 195	(0 Seasonal)
Total Nav aids serviced	= 195	(0 Seasonal)
Total trips	= 9	
Underway days	= 32	
Deck Space Available	= 14256	
Deck Space Used	= 6433.5	(45.1% utilization)
Avg buoys / trip	= 21.7	
Avg underway days / trip	= 3.6	
Total transit time	= 157:23	
Total service time	= 179:19	
Total idle time	= 183:52	
Total time	= 520:33	-----
Total short transits	= 150	
Total length of short trips	= 14:08	
Additional prep/deprep time	= 60:52	-----
Avg service time / nav aid	= 0:55	
Avg transit time / nav aid	= 1:07	
Avg total time / nav aid	= 2:59	
Total discrepancies	= 24.1	
Computed discrepancy hours	= 71:51	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 82:16	-----
Same time servicing (subtract)	= 17:56	-----

Total ATON hours used = 717:37

Historical ATON hours used = 942:00

15:57:46

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MADRONA2.REP

VESSEL SUMMARY REPORT

Platform Characteristics

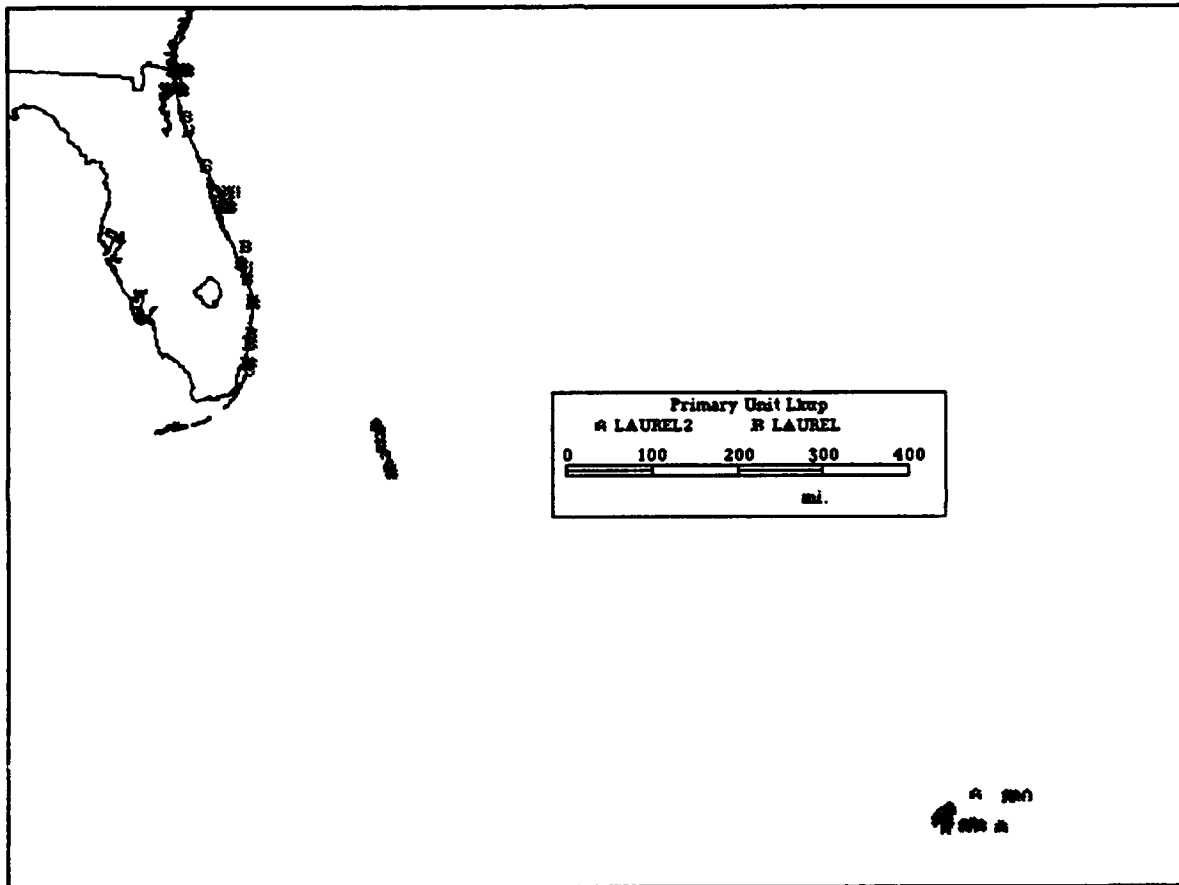
- WLB MADRONA2
- Homeport CHARLESTON, SC
- 9 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	= 125	(0 Seasonal)
Total Nav aids serviced	= 125	(0 Seasonal)
Total trips	= 1	
Underway days	= 27	
Deck Space Available	= 6400	
Deck Space Used	= 2762.25	(43.2% utilization)
Avg buoys / trip	= 125.0	
Avg underway days / trip	= 27.0	
Total transit time	= 318:32	
Total service time	= 99:03	
Total idle time (not added)	= 164:01	
Total time	= 417:35	-----
Total short transits	= 111	
Total length of short trips	= 9:20	
Additional prep/deprep time	= 46:10	-----
Avg service time / nav aid	= 0:48	
Avg transit time / nav aid	= 2:55	
Avg total time / nav aid	= 3:43	
Total discrepancies	= 5.9	
Computed discrepancy hours	= 21:53	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 52:44	-----
Same time servicing (subtract)	= 22:17	-----
Total ATON hours used	= 516:05	*****
Historical ATON hours used	= 516:00	*****

1.3.2 WLB Laurel, Mayport, FL

Note: The WLB Laurel was partitioned into WLB Laurel and WLB Laurel2 (South) to account for different concepts of operations.



15:23:47

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

LAUREL.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB LAUREL
- Homeport MAYPORT, FL
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 166	(0 Seasonal)
Total Nav aids serviced	= 166	(0 Seasonal)
Total trips	= 15	
Underway days	= 53	
Deck Space Available	= 23760	
Deck Space Used	= 12411	(52.2% utilization)
Avg buoys / trip	= 11.1	
Avg underway days / trip	= 3.5	
Total transit time	= 569:15	
Total service time	= 178:14	
Total idle time	= 125:37	
Total time	= 873:06	

Total short transits	= 124	
Total length of short trips	= 8:53	
Additional prep/deprep time	= 53:07	

Avg service time / nav aid	= 1:04	
Avg transit time / nav aid	= 3:45	
Avg total time / nav aid	= 5:35	
Total discrepancies	= 44.3837	
Computed discrepancy hours	= 247:39	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 17:02	

Same time servicing (subtract)	= 9:05	

Total ATON hours used = 1181:50

Historical ATON hours used = 842:00

15:41:16
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

LAUREL2.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB LAUREL2
- Homeport MAYPORT, FL
- 9 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	= 175	(0 Seasonal)
Total Nav aids serviced	= 175	(0 Seasonal)
Total trips	= 1	
Underway days	= 29	
Deck Space Available	= 6400	
Deck Space Used	= 2551.5	(39.9 utilization)
Avg buoys / trip	= 175.0	
Avg underway days / trip	= 29.0	
Total transit time	= 280:34	
Total service time	= 126:21	
Total idle time (not added)	= 199:57	
Total time	= 406:55	

Total short transits	= 150	
Total length of short trips	= 6:08	
Additional prep/deprep time	= 68:52	

Avg service time / nav aid	= 0:43	
Avg transit time / nav aid	= 2:00	
Avg total time / nav aid	= 2:43	
Total discrepancies	= 17.1605	
Computed discrepancy hours	= 46:39	

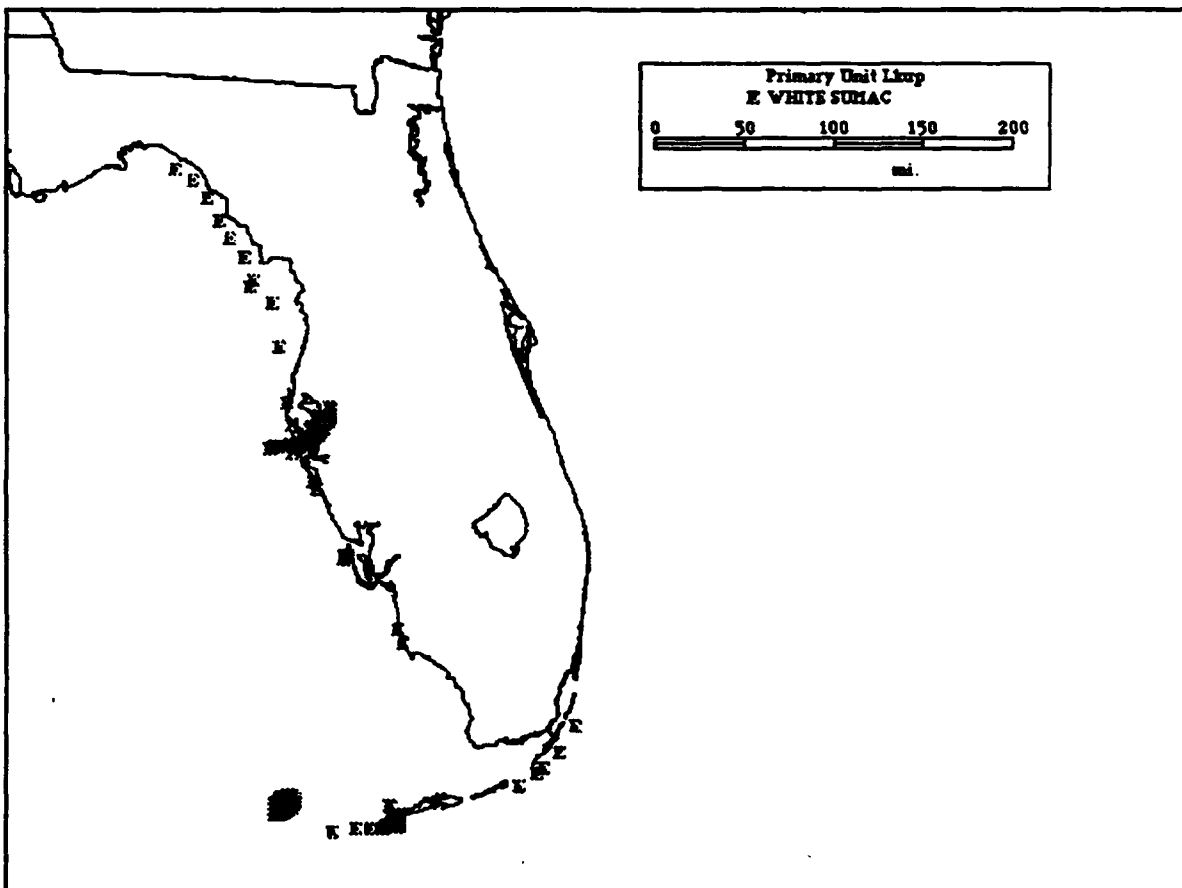
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 17:58	

Same time servicing (subtract)	= 27:11	

Total ATON hours used	= 513:13	
		=====
Historical ATON hours used	= 513:00	
		=====

1.3.3 WLM White Sumac, St. Petersburg , FL



16:4:38
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

W-SUMAC.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLM WHITE SUMAC
- Homeport ST PETERSBURG, FL
- 8 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 213	(0 Seasonal)
Total Navaids serviced	= 213	(0 Seasonal)
Total trips	= 19	
Underway days	= 56	
Deck Space Available	= 19000	
Deck Space Used	= 10707.2	(56.4% utilization)
Avg buoys / trip	= 11.2	
Avg underway days / trip	= 2.9	
Total transit time	= 652:57	
Total service time	= 162:17	
Total idle time	= 160:50	
Total time	= 976:05	

Total short transits	= 162	
Total length of short trips	= 19:22	
Additional prep/deprep time	= 61:38	

Avg service time / navaid	= 0:46	
Avg transit time / navaid	= 3:21	
Avg total time / navaid	= 4:52	
Total discrepancies	= 40	
Computed discrepancy hours	= 194:52	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

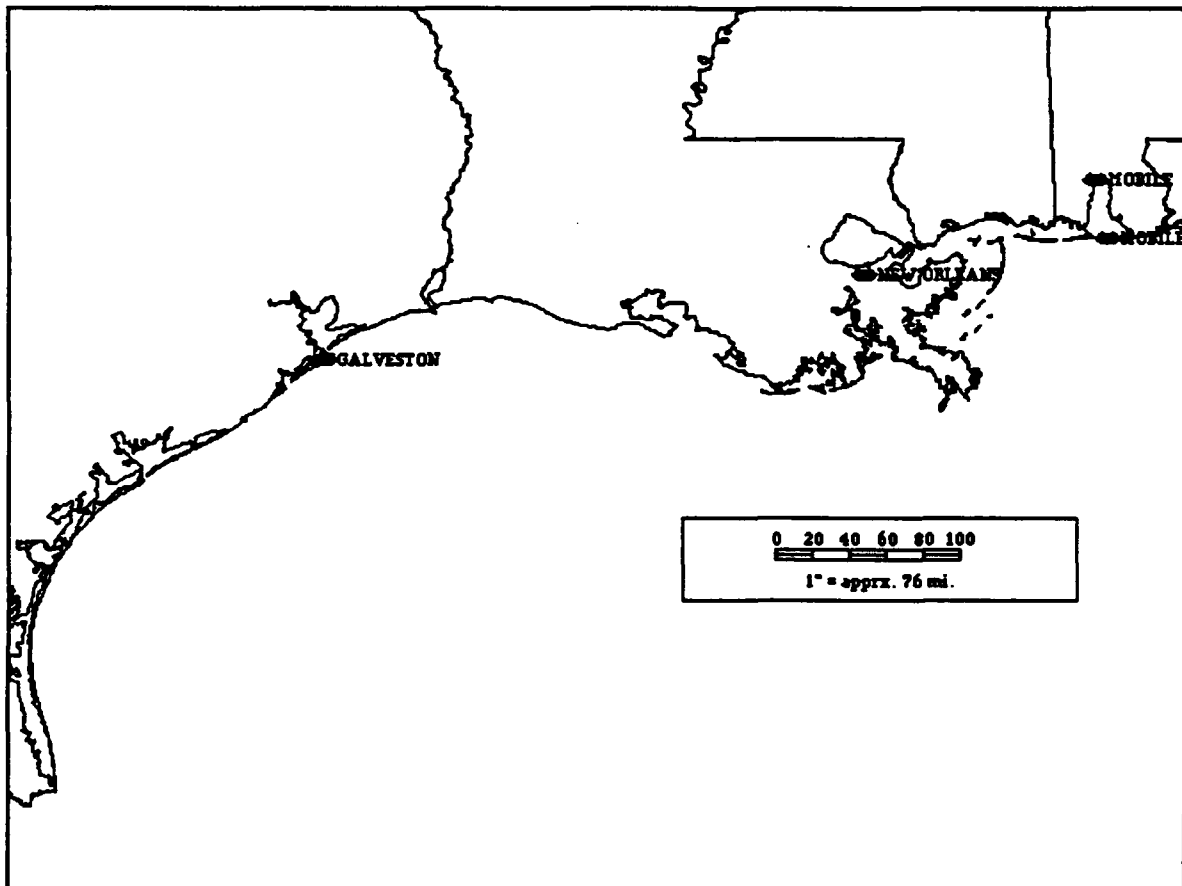
Total weather hours	= 24:00	

Same time servicing (subtract)	= 0:00	

Total ATON hours used = 1256:35
=====

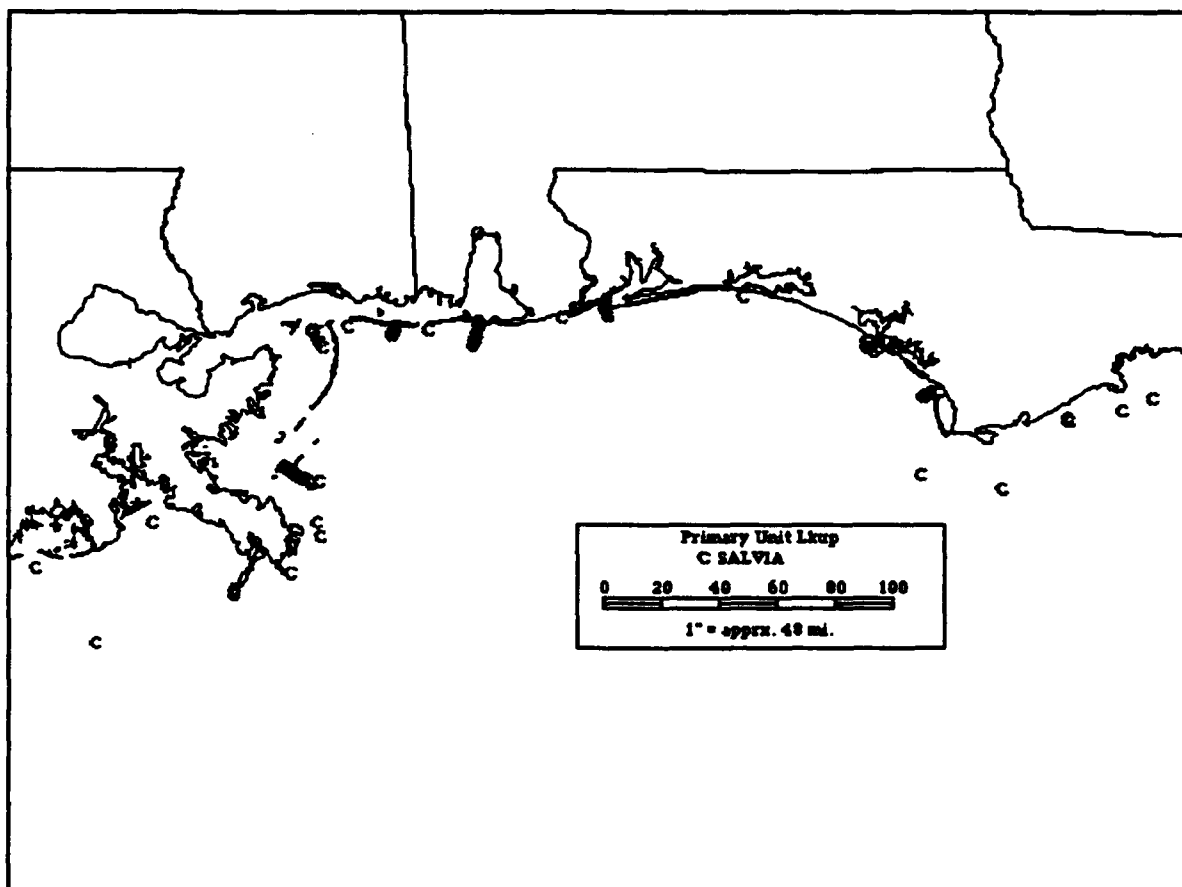
Historical ATON hours used = 1248:00
=====

1.4 DISTRICT 8



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
PAPAW	GALVESTON	WLB	148	719	1300
SALVIA	MOBILE	WLB	120	954	1282
WHITE HOLLY	NEW ORLEANS	WLM	221	1371	1404
WHITE PINE	MOBILE	WLM	210	1372	1145
		Totals	699	4416	5131
		Avg	174.8	1104	1283

1.4.1 WLB Salvia, Mobile, AL



16:32:33
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SALVIA.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SALVIA
- Homeport MOBILE, AL
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

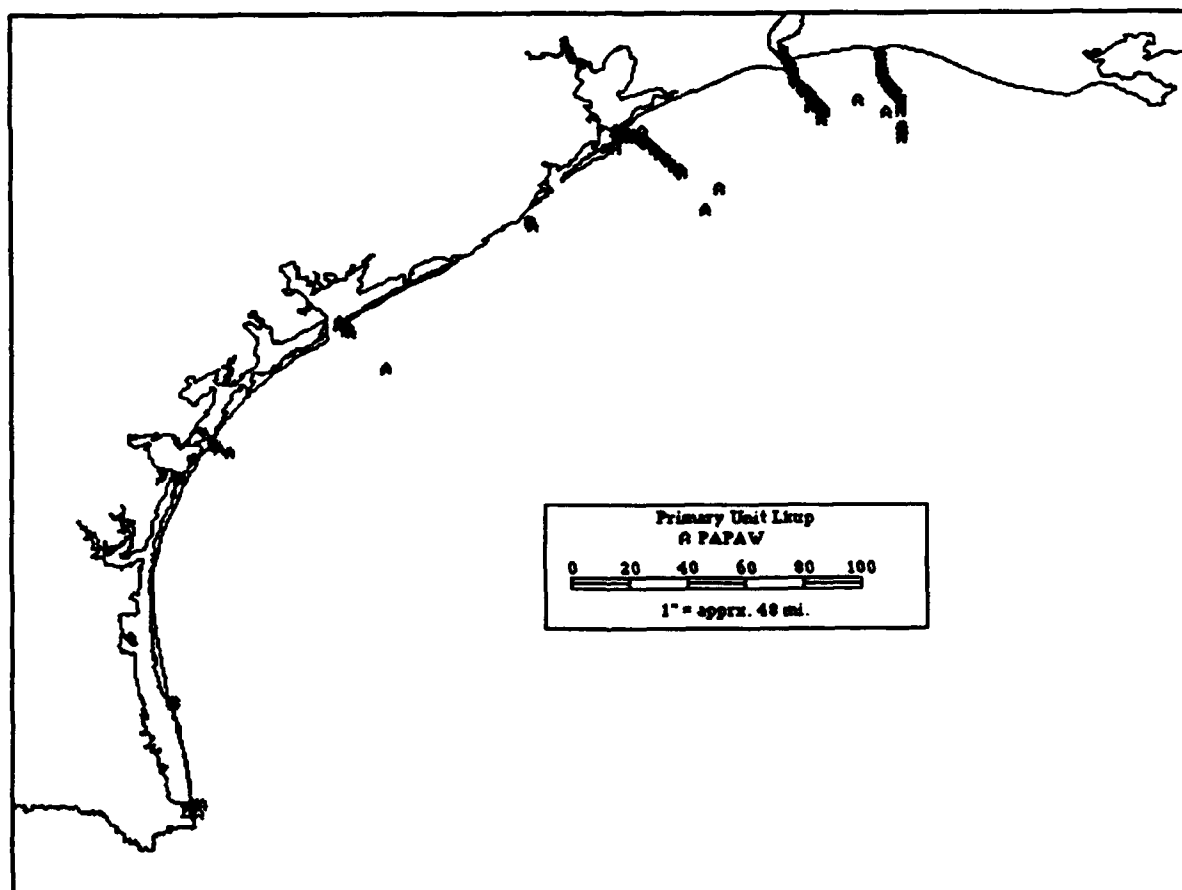
Summary Statistics

Total Nav aids assigned	= 120	(0 Seasonal)
Total Nav aids serviced	= 120	(0 Seasonal)
Total trips	= 9	
Underway days	= 34	
Deck Space Available	= 14256	
Deck Space Used	= 4758	(33.4% utilization)
Avg buoys / trip	= 13.3	
Avg underway days / trip	= 3.8	
Total transit time	= 262:49	
Total service time	= 139:24	
Total idle time	= 142:18	
Total time	= 544:31	-----
Total short transits	= 94	
Total length of short trips	= 6:43	
Additional prep/deprep time	= 40:17	-----
Avg service time / nav aid	= 1:10	
Avg transit time / nav aid	= 2:32	
Avg total time / nav aid	= 4:52	
Total discrepancies	= 41.3781	
Computed discrepancy hours	= 201:39	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 170:00	-----
Same time servicing (subtract)	= 2:47	-----

Total ATON hours used = 953:41

Historical ATON hours used = 1282:00

1.4.2 WLB Papaw, Galveston, TX



16:25:43
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

PAPAW.REP

VESSEL SUMMARY REPORT

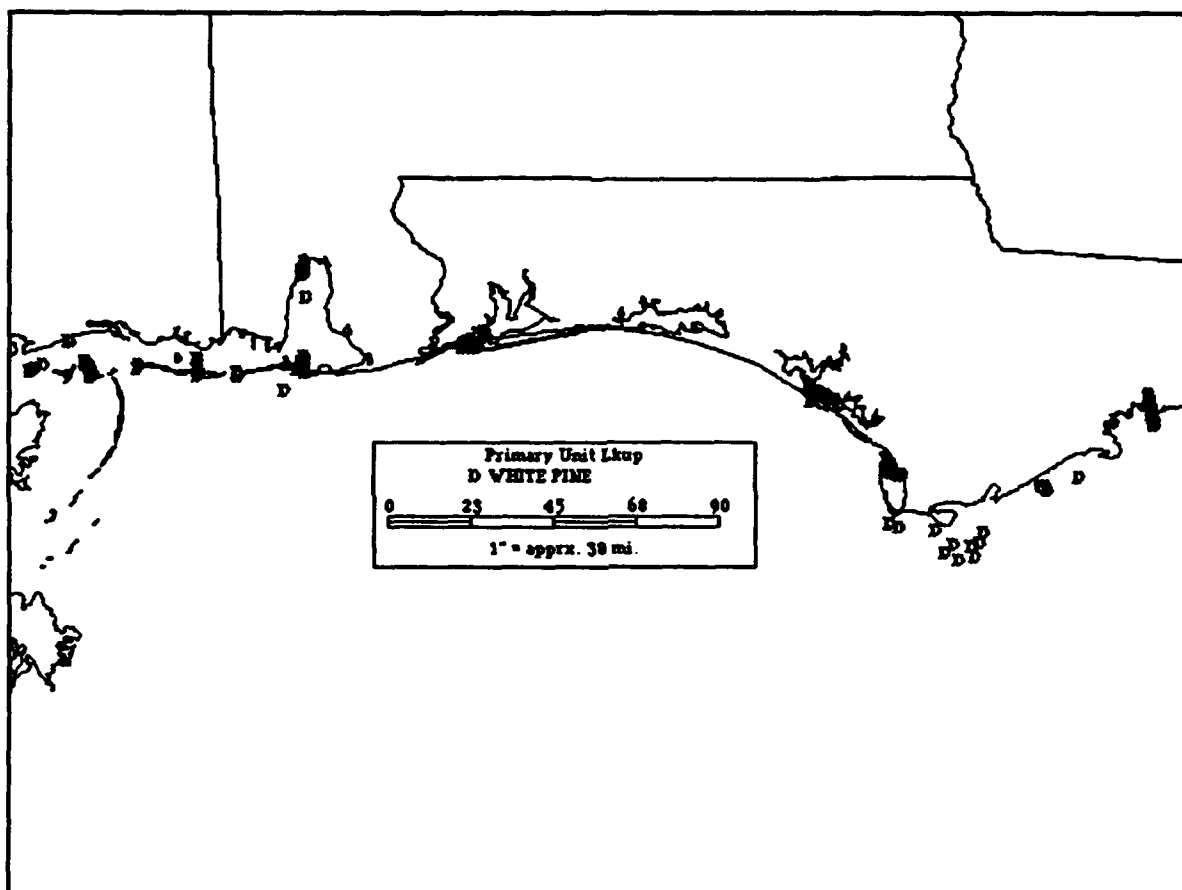
Platform Characteristics

- MLB PAPAW
- Homeport GALVESTON, TX
- 9 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 148	(0 Seasonal)
Total Nav aids serviced	= 148	(0 Seasonal)
Total trips	= 9	
Underway days	= 32	
Deck Space Available	= 14256	
Deck Space Used	= 5247	(36.8% utilization)
Avg buoys / trip	= 16.4	
Avg underway days / trip	= 3.6	
Total transit time	= 230:49	
Total service time	= 147:06	
Total idle time	= 144:50	
Total time	= 522:46	-----
Total short transits	= 121	
Total length of short trips	= 12:22	
Additional prep/deprep time	= 48:08	-----
Avg service time / nav aid	= 1:00	
Avg transit time / nav aid	= 1:53	
Avg total time / nav aid	= 3:51	
Total discrepancies	= 15	
Computed discrepancy hours	= 57:52	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 90:00	-----
Same time servicing (subtract)	= 0:00	-----
Total ATON hours used	= 718:46	-----
Historical ATON hours used	= 1300:00	-----

1.4.3 WLM White Pine, Mobile, AL



16:54:32
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

W-PINE.REP

VESSEL SUMMARY REPORT

=====

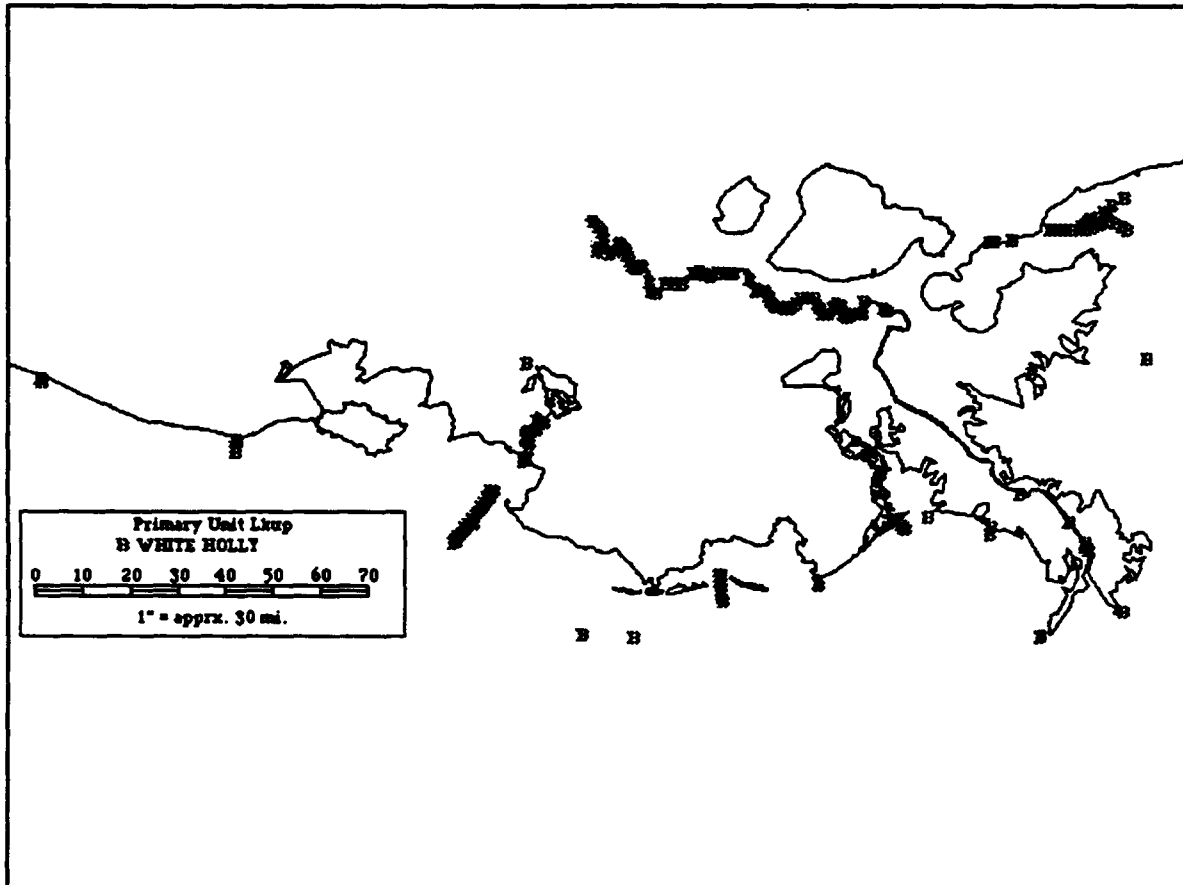
Platform Characteristics

- WLM WHITE PINE
- Homeport MOBILE, AL
- 8 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 210	(0 Seasonal)
Total Nav aids serviced	= 210	(0 Seasonal)
Total trips	= 16	
Underway days	= 59	
Deck Space Available	= 16000	
Deck Space Used	= 1607.37	(10.0% utilization)
Avg buoys / trip	= 13.1	
Avg underway days / trip	= 3.7	
Total transit time	= 607:50	
Total service time	= 152:43	
Total idle time	= 232:21	
Total time	= 992:54	-----
Total short transits	= 169	
Total length of short trips	= 10:14	
Additional prep/deprep time	= 74:16	-----
Avg service time / nav aid	= 0:44	
Avg transit time / nav aid	= 3:15	
Avg total time / nav aid	= 5:05	
Total discrepancies	= 38.3995	
Computed discrepancy hours	= 195:08	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 110:00	-----
Same time servicing (subtract)	= 0:00	-----
Total ATON hours used	= 1372:18	=====
Historical ATON hours used	= 1145:00	=====

1.4.4 WLM White Holly, New Orleans, LA



16:38:25
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

W-HOLLY.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM WHITE HOLLY
- Homeport NEW ORLEANS, LA
- 8 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 221	(47 Seasonal)
Total Navaids serviced	= 221	(47 Seasonal)
Total trips	= 16	
Underway days	= 48	
Deck Space Available	= 16000	
Deck Space Used	= 8298	(51.9% utilization)
Avg buoys / trip	= 16.8	
Avg underway days / trip	= 3.0	
Total transit time	= 321:21	
Total service time	= 175:47	
Total idle time	= 405:08	
Total time		= 902:18

Total short transits	= 211	
Total length of short trips	= 26:16	
Additional prep/deprep time		= 79:14

Avg service time / navaid	= 0:39	
Avg transit time / navaid	= 1:30	
Avg total time / navaid	= 3:40	
Total discrepancies	= 81.4067	
Computed discrepancy hours		= 298:09

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

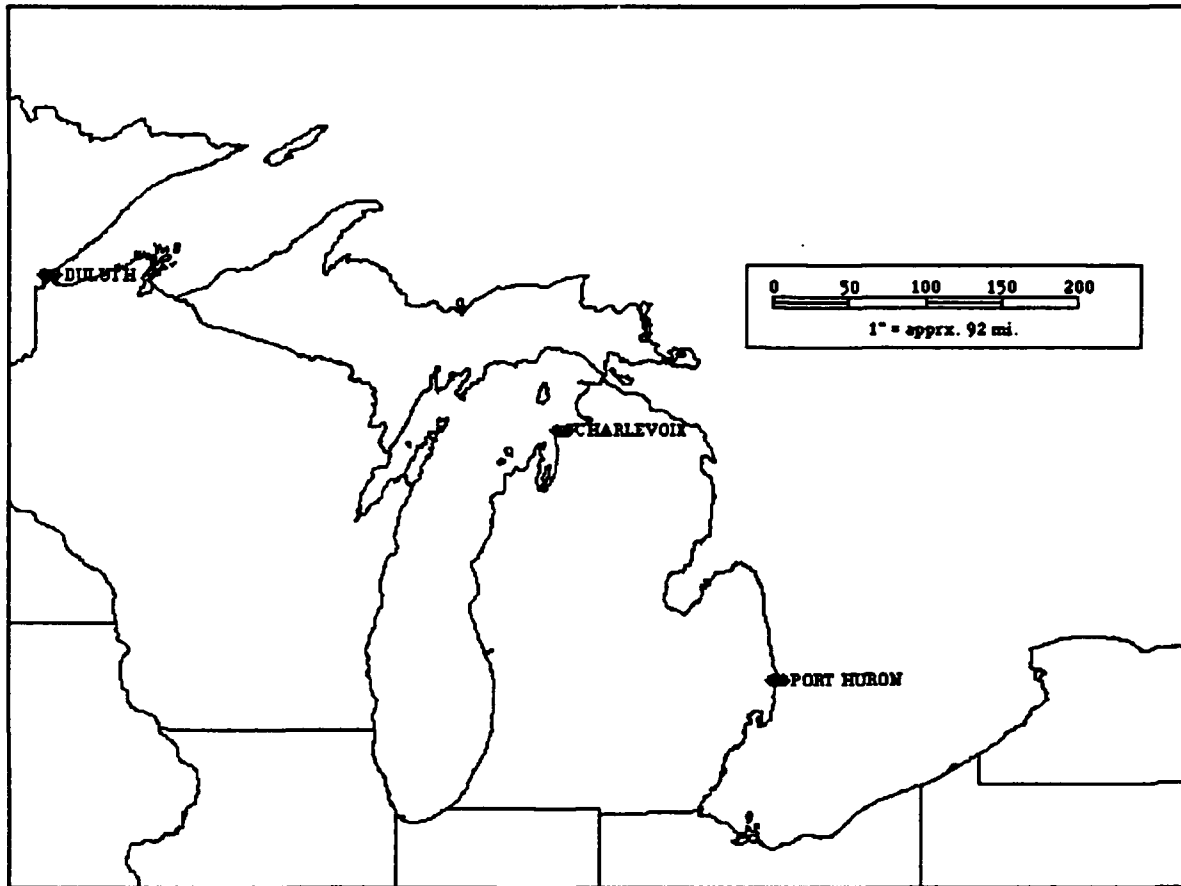
Total weather hours		= 100:00

Same time servicing (subtract)		= 8:41

Total ATON hours used = 1370:59

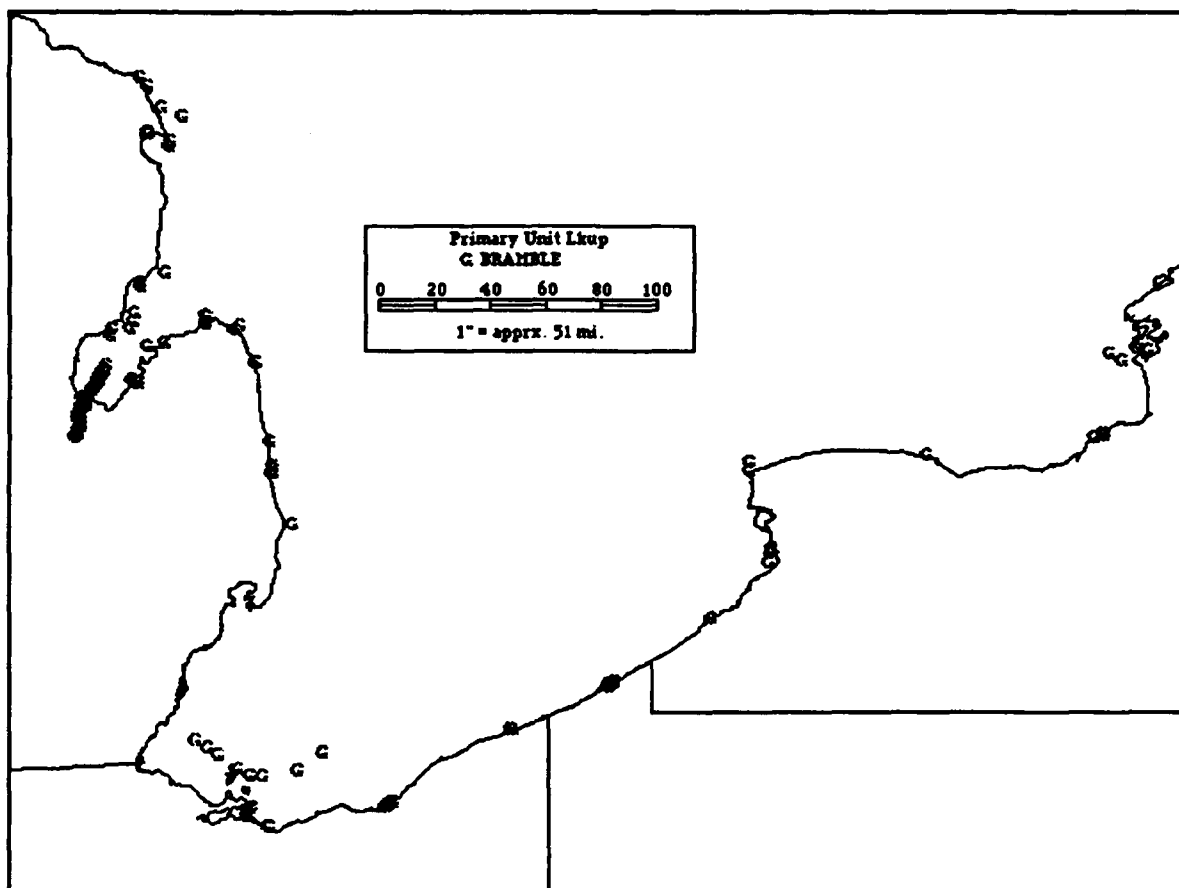
Historical ATON hours used = 1404:00

1.5 DISTRICT 9



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navaid</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
ACACIA	CHARLEVOIX	WLB	243	860	663
BRAMBLE	PORT HURON	WLB	249	786	965
SUNDEW	DULUTH	WLB	242	521	637
		Totals	734	2167	2265
		Avg	244.7	722	755

1.5.1 WLB Bramble, Port Huron, MI



17:18:9
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

BRAMBLE.REP

VESSEL SUMMARY REPORT

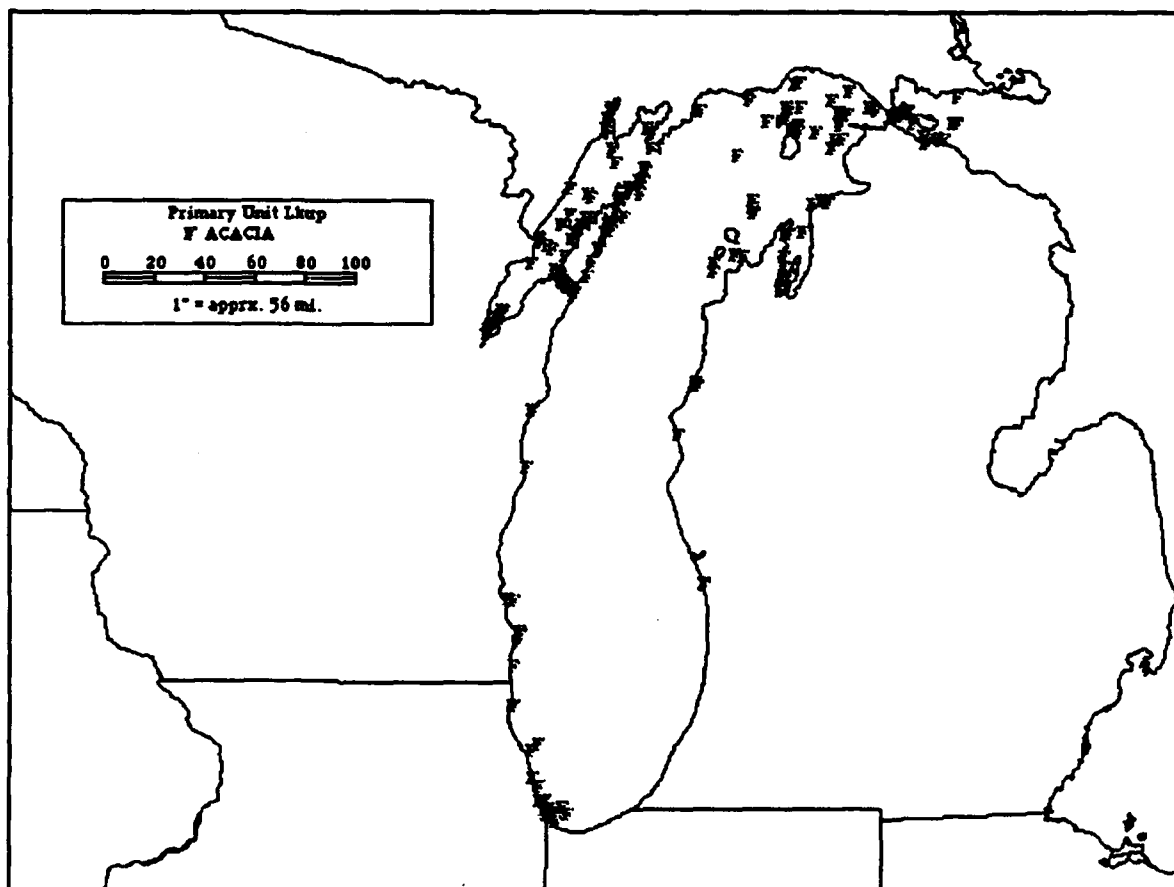
Platform Characteristics

- WLB BRAMBLE
- Homeport PORT HURON, MI
- 10 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 9600 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 249	(142 Seasonal)
Total Nav aids serviced	= 249	(142 Seasonal)
Total trips	= 5	
Underway days	= 63	
Deck Space Available	= 48000	
Deck Space Used	= 29078.1	(60.6% utilization)
Avg buoys / trip	= 78.2	
Avg underway days / trip	= 12.6	
Total transit time	= 302:36	
Total service time	= 482:45	
Total idle time (not added)	= 228:30	
Total time	= 785:20	-----
Total short transits	= 291	
Total length of short trips	= 11:35	
Additional prep/deprep time	= 61:10	-----
Avg service time / nav aid	= 1:14	
Avg transit time / nav aid	= 0:56	
Avg total time / nav aid	= 2:10	
Total discrepancies	= 6.00001	
Computed discrepancy hours	= 12:59	-----
Additional Structure Visits	= 2.2	
Additional Structure hours	= 15:02	-----
Total weather hours	= 87:39	-----
Same time servicing (subtract)	= 176:15	-----
Total ATON hours used	= 785:54	*****
Historical ATON hours used	= 965:00	*****

1.5.2 WLB Acacia, Charlevoix, MI



17:33:16
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

ACACIA.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB ACACIA
- Homeport CHARLEVOIX, MI
- 10 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 9600 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 243	(120 Seasonal)
Total Navaids serviced	= 243	(120 Seasonal)
Total trips	= 6	
Underway days	= 52	
Deck Space Available	= 57600	
Deck Space Used	= 40311	(70.0% utilization)
Avg buoys / trip	= 60.5	
Avg underway days / trip	= 8.7	
Total transit time	= 262:32	
Total service time	= 428:21	
Total idle time (not added)	= 252:01	
Total time	= 690:53	

Total short transits	= 204	
Total length of short trips	= 18:30	
Additional prep/deprep time	= 32:30	

Avg service time / navaid	= 1:11	
Avg transit time / navaid	= 0:49	
Avg total time / navaid	= 2:00	
Total discrepancies	= 34	
Computed discrepancy hours	= 67:45	

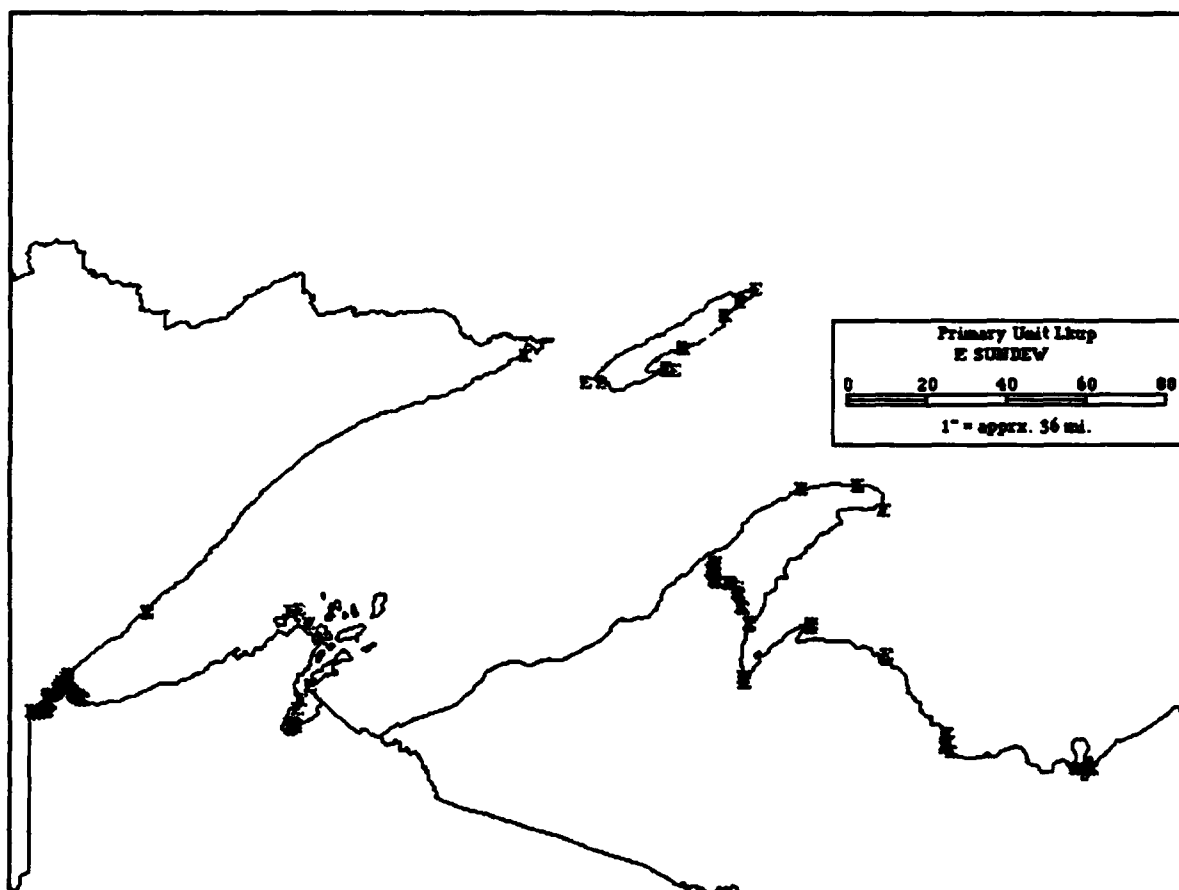
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 90:00	

Same time servicing (subtract)	= 21:25	

Total ATON hours used	= 859:43	*****
Historical ATON hours used	= 663:00	*****

1.5.3 WLB Sundew, Duluth, MN



17:46:2
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SUNDEW.REP

VESSEL SUMMARY REPORT

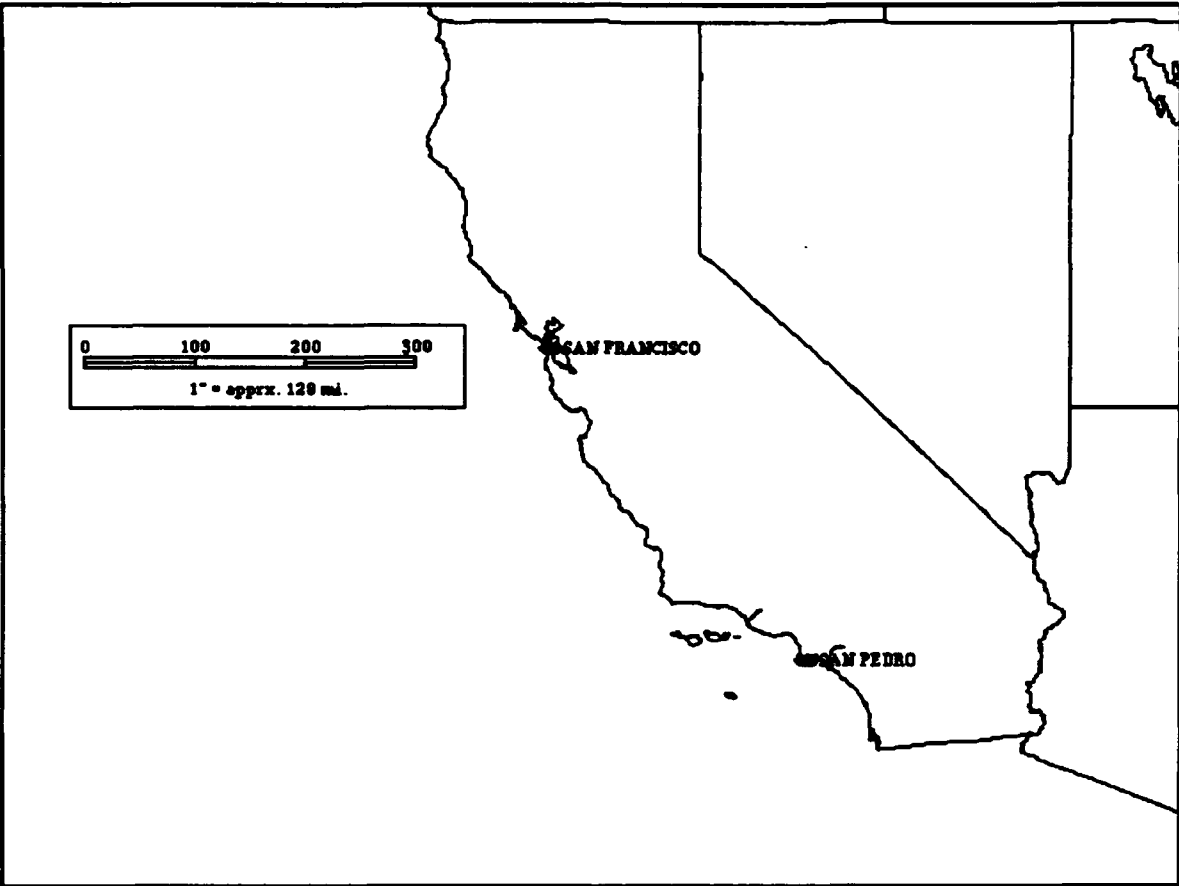
Platform Characteristics

- WLB SUNDEW
- Homeport DULUTH, MN
- 11 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 9600 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

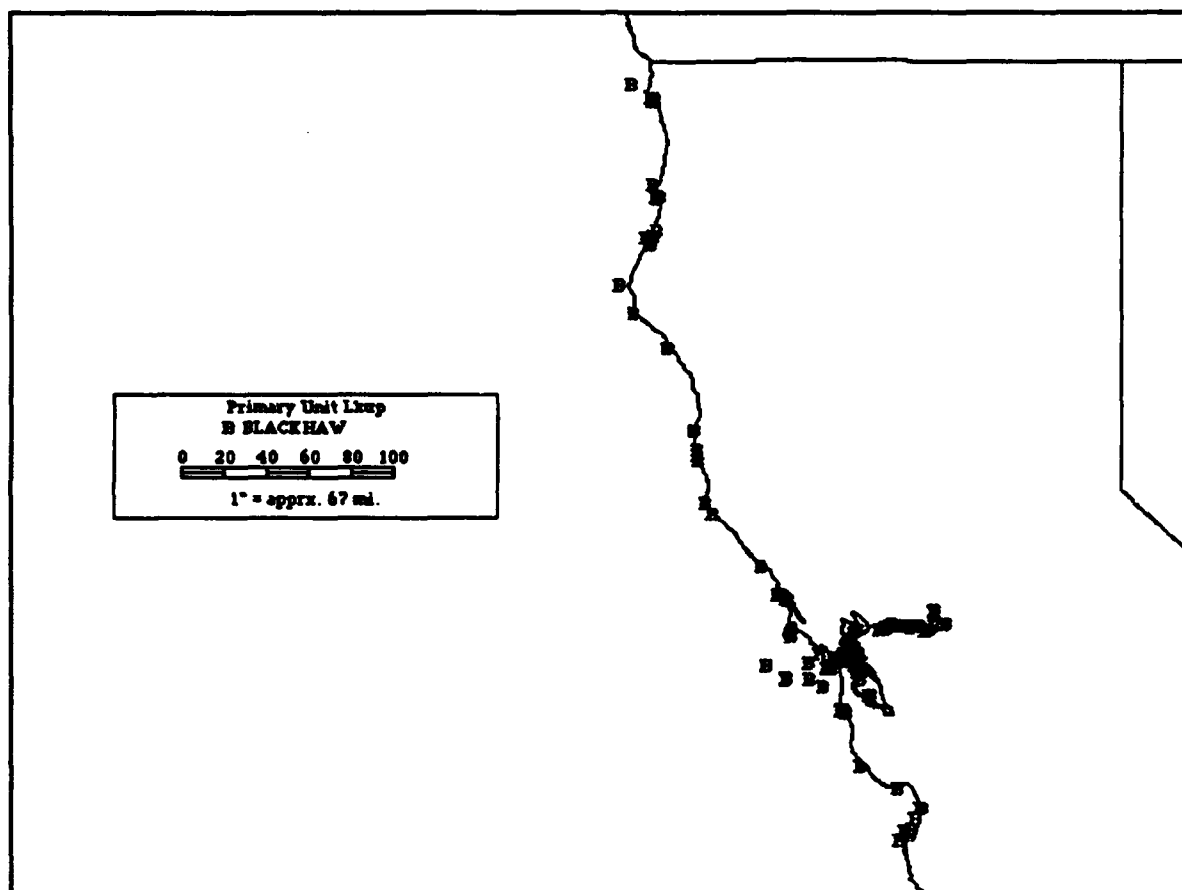
Total Nav aids assigned	= 242	(127 Seasonal)
Total Nav aids serviced	= 242	(127 Seasonal)
Total trips	= 5	
Underway days	= 36	
Deck Space Available	= 48000	
Deck Space Used	= 18898.8	(39.4% utilization)
Avg buoys / trip	= 73.8	
Avg underway days / trip	= 7.2	
Total transit time	= 130:24	
Total service time	= 341:48	
Total idle time (not added)	= 177:16	
Total time	= 472:12	-----
Total short transits	= 316	
Total length of short trips	= 12:38	
Additional prep/deprep time	= 66:22	-----
Avg service time / nav aid	= 0:56	
Avg transit time / nav aid	= 0:32	
Avg total time / nav aid	= 1:28	
Total discrepancies	= 4	
Computed discrepancy hours	= 5:50	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 100:00	-----
Same time servicing (subtract)	= 123:03	-----
Total ATON hours used	= 521:22	-----
Historical ATON hours used	= 637:00	-----

1.6 DISTRICT 11



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navais</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
BLACKHAW	SAN FRANCISCO	WLB	170	1446	1200
CONIFER	SAN PEDRO	WLB	135	761	1000
		Totals	305	2207	2200
		Avg	152.5	1104	1100

1.6.1 WLB Blackhaw, San Francisco, CA



13:23:52
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

BLACKHAW.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB BLACKHAW
- Homeport SAN FRANCISCO, CA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned = 171 (0 Seasonal)
Total Navaids serviced = 170 (0 Seasonal)
Total trips = 14
Underway days = 49

Deck Space Available = 22176
Deck Space Used = 5862 (26.4% utilization)

Avg buoys / trip = 12.1
Avg underway days / trip = 3.5

Total transit time = 388:28
Total service time = 275:26
Total idle time = 174:39
Total time = 838:34

Total short transits = 123
Total length of short trips = 15:51
Additional prep/deprep time = 45:39

Avg service time / navaid = 1:37
Avg transit time / navaid = 2:33
Avg total time / navaid = 5:12

Total discrepancies = 72.4
Computed discrepancy hours = 376:34

Additional Structure Visits = 0
Additional Structure hours = 0:00

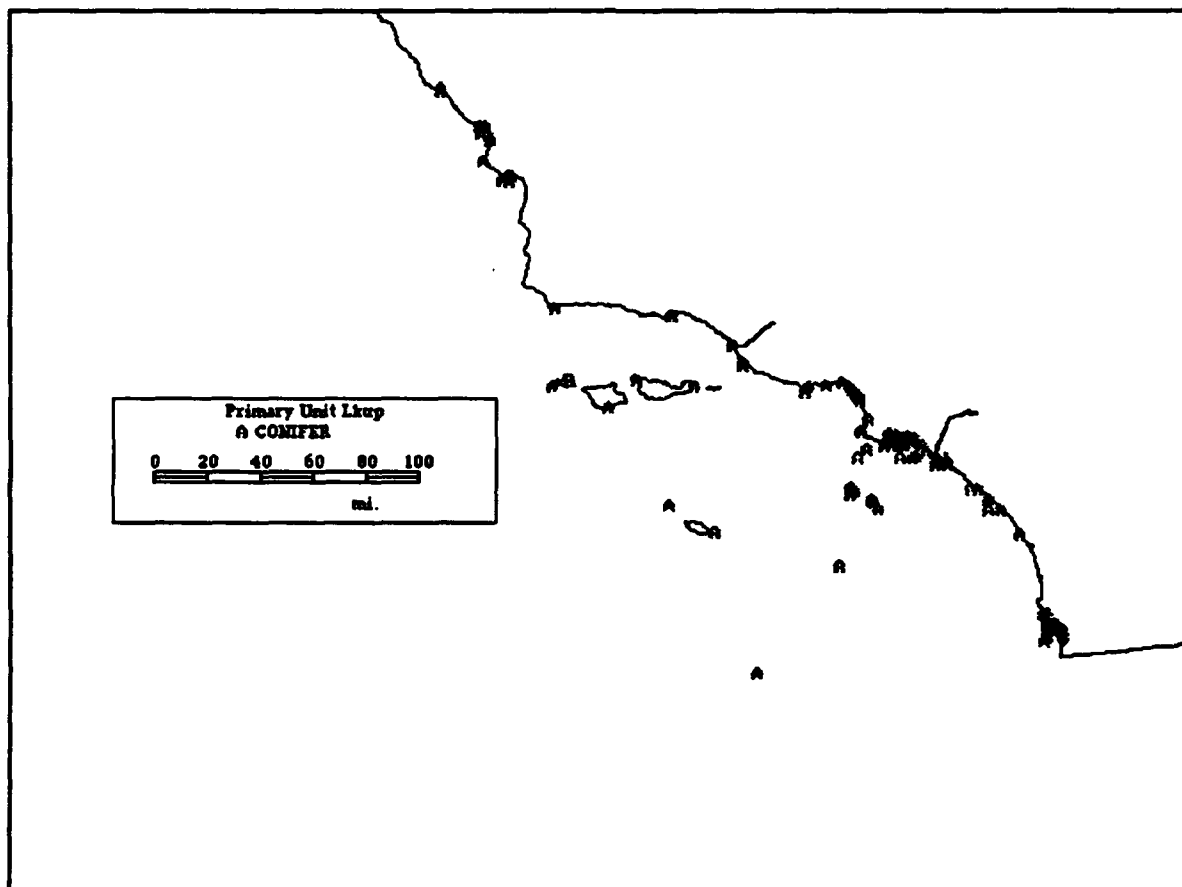
Total weather hours = 240:00

Same time servicing (subtract) = 55:05

Total ATON hours used 1445:41

Historical ATON hours used = 1200:00

1.6.2 WLB Conifer, San Pedro, CA



11:59:45
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

CONIFER.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB CONIFER
- Homeport SAN PEDRO, CA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

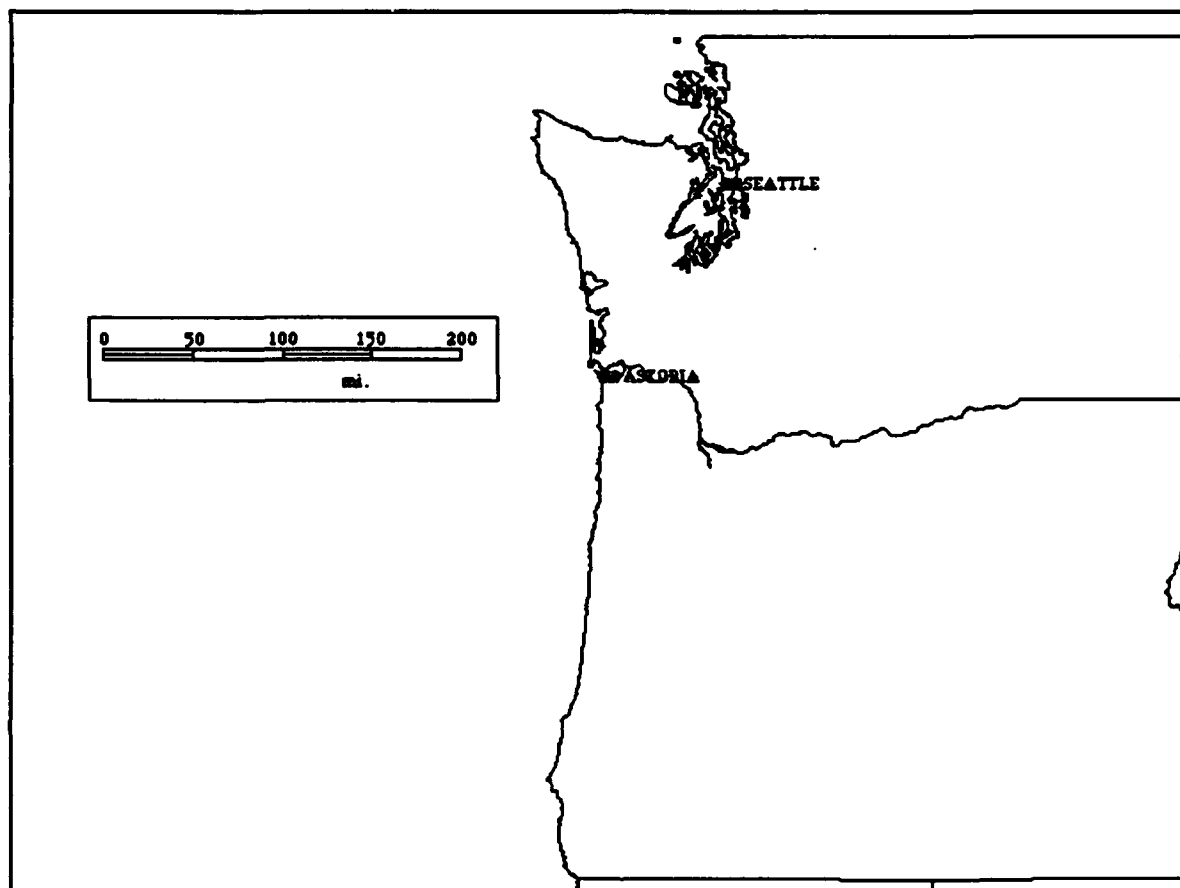
Summary Statistics

Total Navaids assigned	= 136	(0 Seasonal)
Total Navaids serviced	= 135	(0 Seasonal)
Total trips	= 10	
Underway days	= 35	
Deck Space Available	= 15840	
Deck Space Used	= 4350.15	(27.5% utilization)
Avg buoys / trip	= 13.5	
Avg underway days / trip	= 3.5	
Total transit time	= 188:52	
Total service time	= 209:20	
Total idle time	= 160:49	
Total time	= 559:01	-----
Total short transits	= 92	
Total length of short trips	= 11:01	
Additional prep/deprep time	= 34:59	-----
Avg service time / navaid	= 1:33	
Avg transit time / navaid	= 1:39	
Avg total time / navaid	= 4:24	
Total discrepancies	= 22.6197	
Computed discrepancy hours	= 99:32	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 72:00	-----
Same time servicing (subtract)	= 4:11	-----

Total ATON hours used 761:21

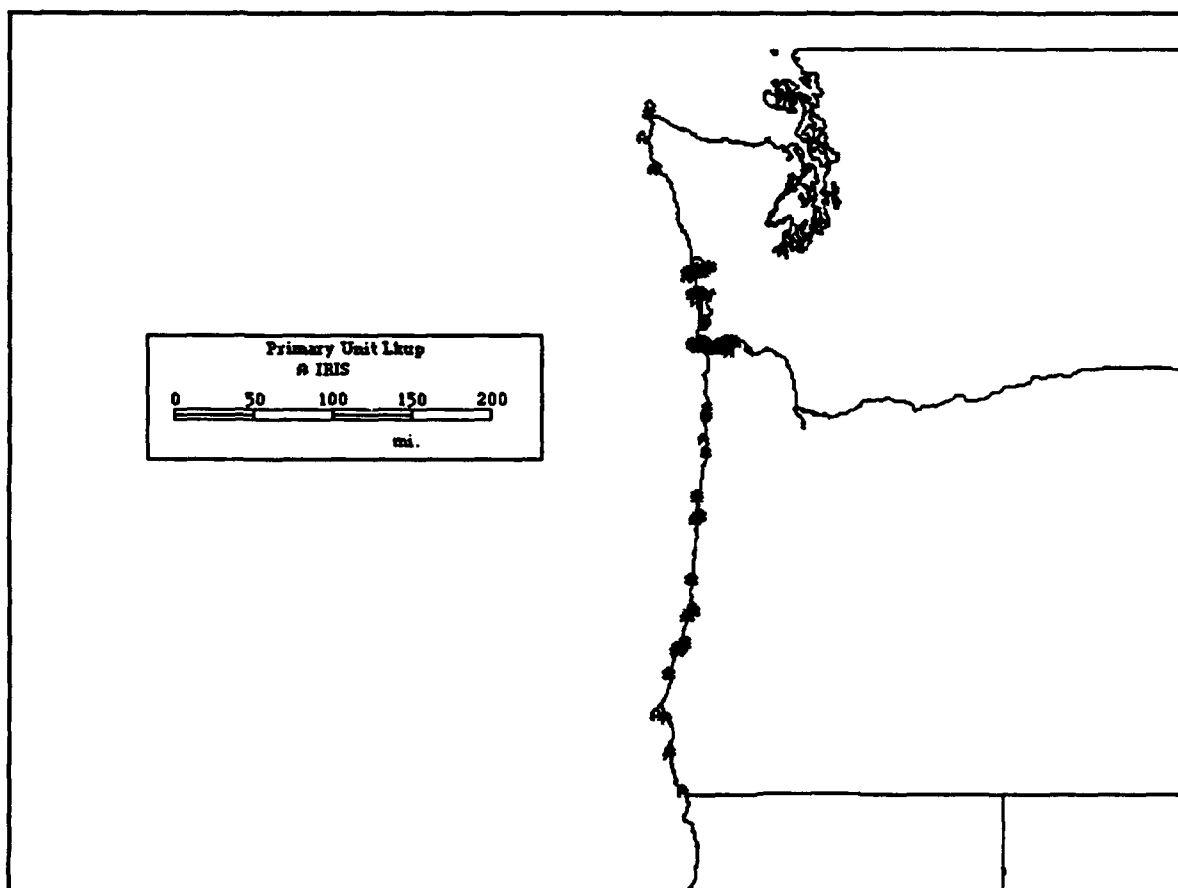
Historical ATON hours used = 1000:00

1.7 DISTRICT 13



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navaid</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
IRIS	ASTORIA	WLB	156	1350	1328
MARIPOSA	SEATTLE	WLB	137	732	856
		Totals	293	2082	2184
		Avg	146.5	1041	1092

1.7.1 WLB Iris, Astoria, OR



13:48:57
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

IRIS.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLB IRIS
- Homeport ASTORIA, OR
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaid assigned	= 157	(12 Seasonal)
Total Navaid serviced	= 156	(12 Seasonal)
Total trips	= 14	
Underway days	= 49	
Deck Space Available	= 22176	
Deck Space Used	= 12396.9	(55.9% utilization)
Avg buoys / trip	= 12.0	
Avg underway days / trip	= 3.5	
Total transit time	= 454:46	
Total service time	= 164:11	
Total idle time	= 164:02	
Total time	=	782:59

Total short transits	= 107	
Total length of short trips	= 10:12	
Additional prep/deprep time	=	43:18

Avg service time / navaid	=	0:59
Avg transit time / navaid	=	2:58
Avg total time / navaid	=	4:55
Total discrepancies	= 56	
Computed discrepancy hours	=	275:26

Additional Structure Visits	= 0	
Additional Structure hours	=	0:00

Total weather hours	=	265:00

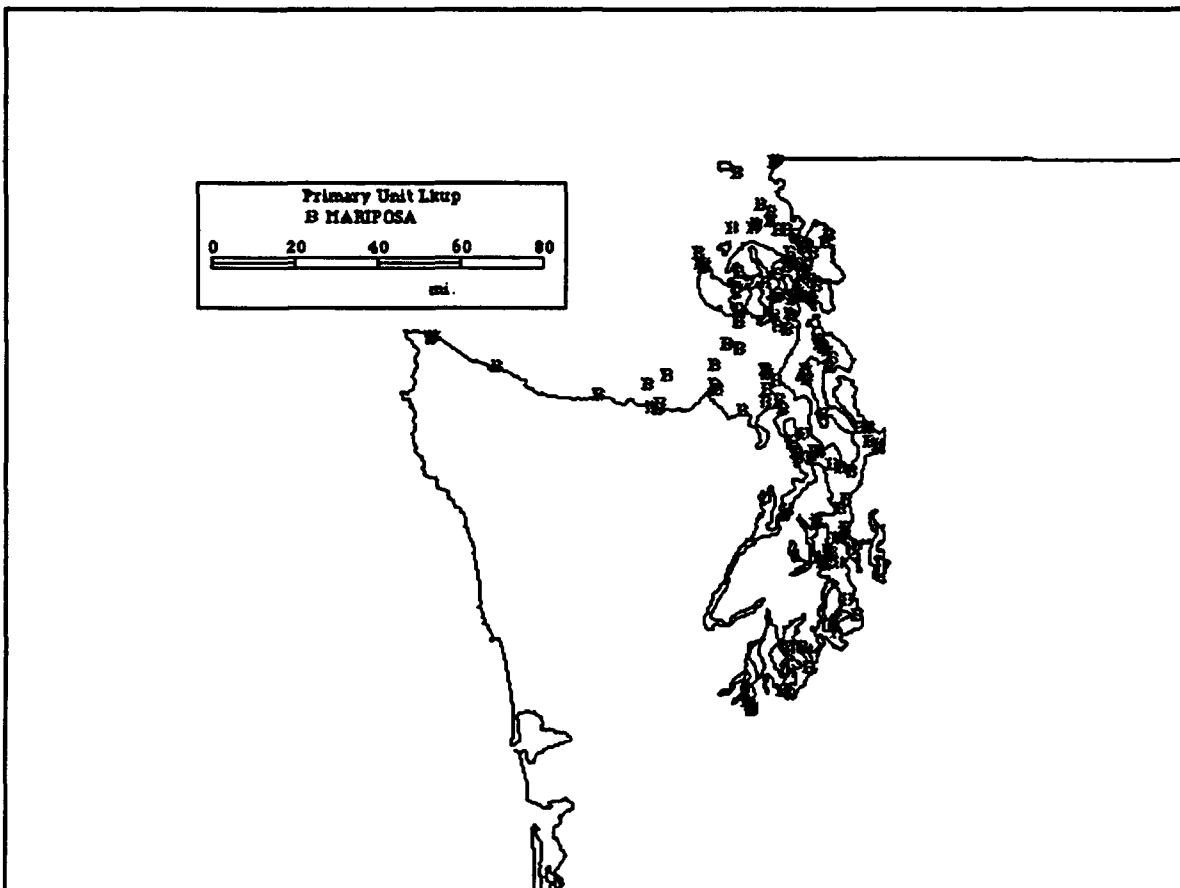
Same time servicing (subtract)	=	16:25

Total ATON hours used 1350:18
=====

Historical ATON hours used = 1328:00
=====

1.7.2 WLB Mariposa, Seattle, WA

Historical data for the Mariposa was based on its predecessor in District 13, the 175' WLM Fir. Therefore, for validation purposes, the Mariposa was treated as a WLM.



18:3:51
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MARIPOSA.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLM MARIPOSA
- Homeport SEATTLE, WA
- 9.5 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Wednesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 138	(0 Seasonal)
Total Nav aids serviced	= 137	(0 Seasonal)
Total trips	= 7	
Underway days	= 21	
Deck Space Available	= 11088	
Deck Space Used	= 4513.5	(40.7% utilization)
Avg buoys / trip	= 19.6	
Avg underway days / trip	= 3.0	
Total transit time	= 188:57	
Total service time	= 113:33	
Total idle time	= 169:30	
Total time	=	402:01

Total short transits	= 87	
Total length of short trips	= 16:43	
Additional prep/deprep time	=	26:47

Avg service time / nav aid	= 0:50	
Avg transit time / nav aid	= 1:04	
Avg total time / nav aid	= 3:08	
Total discrepancies	= 65	
Computed discrepancy hours	=	203:27

Additional Structure Visits	= 0	
Additional Structure hours	=	0:00

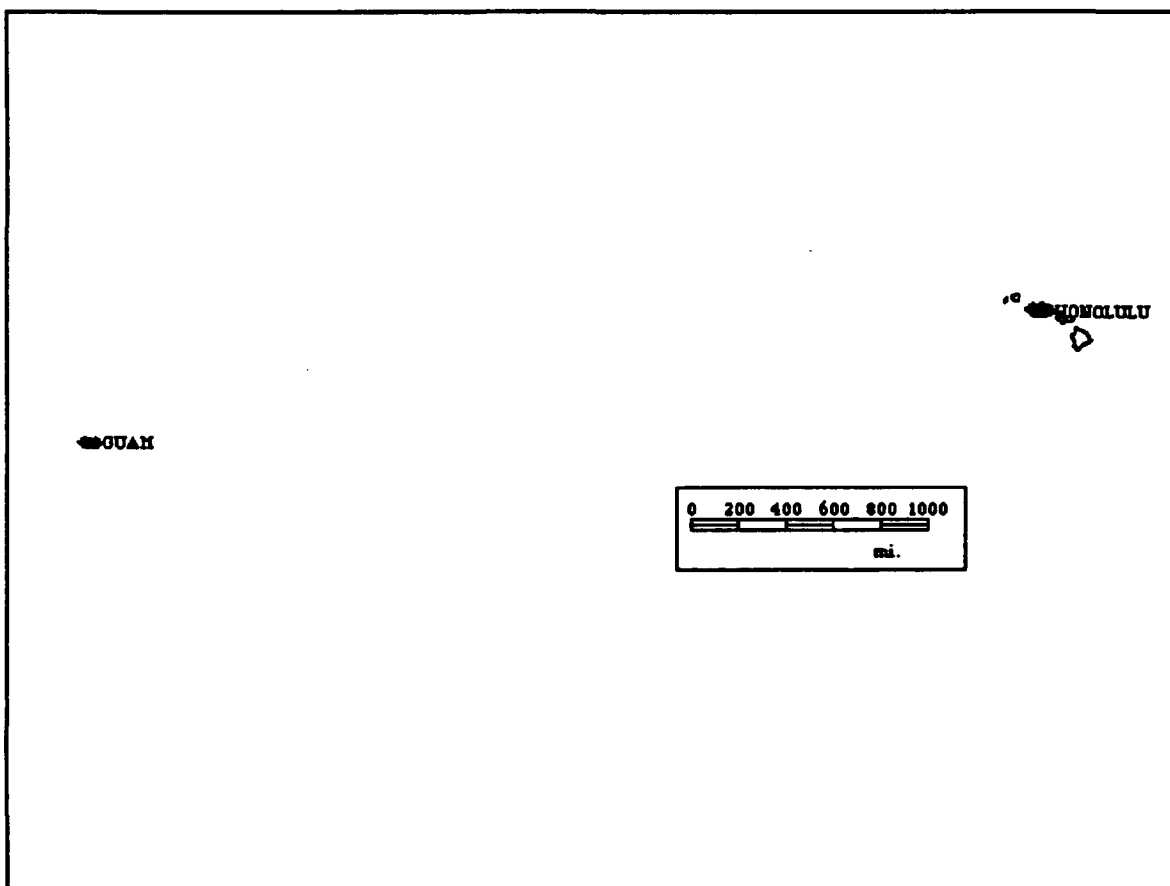
Total weather hours	=	100:00

Same time servicing (subtract)	=	0:00

Total ATON hours used 732:15

Historical ATON hours used = 856:00

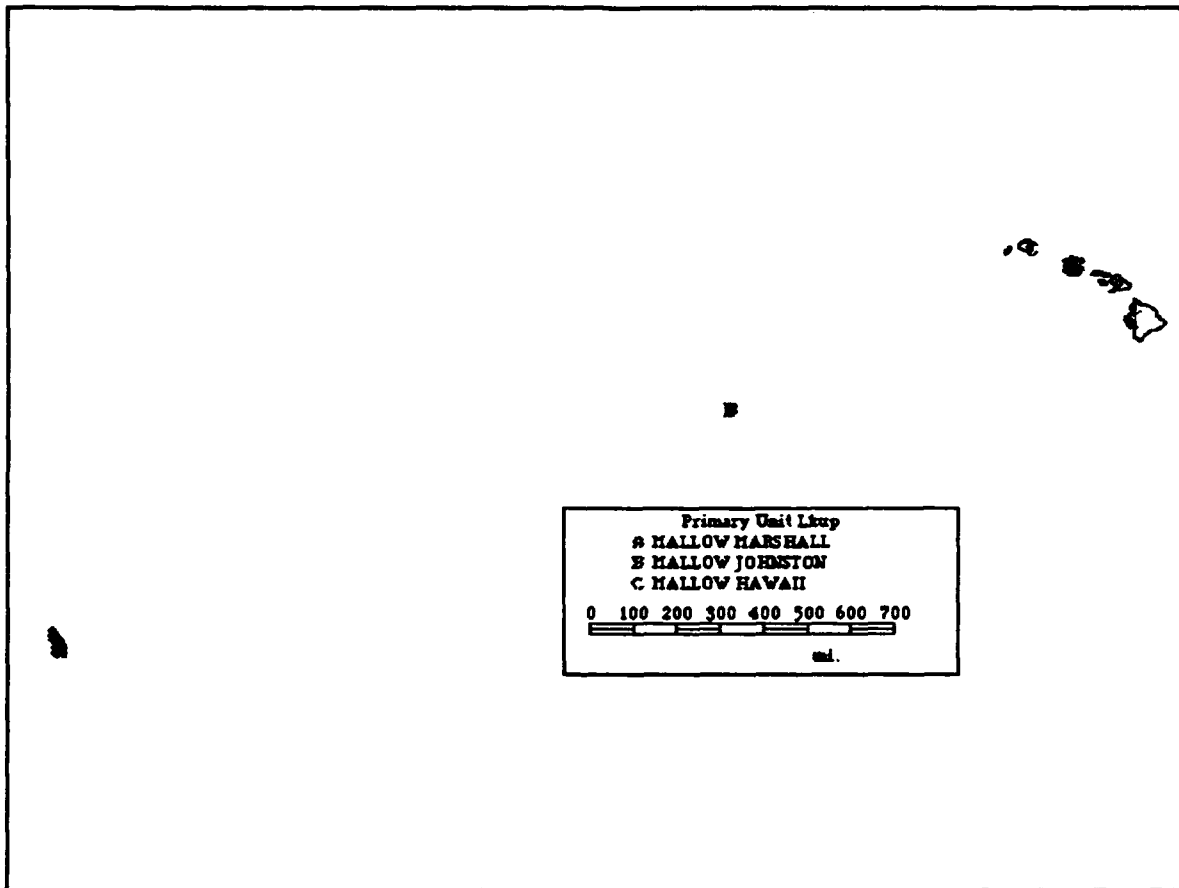
1.8 DISTRICT 14



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
BASSWOOD GUAM	GUAM	WLB	54	292	395
BASSWOOD PHILIPP	GUAM	WLB	16	344	344
BASSWOOD SOLOMON	GUAM	WLB	62	232	232
MALLOW HAWAII	HONOLULU	WLB	68	268	112
MALLOW JOHNSTON	HONOLULU	WLB	30	210	210
MALLOW MARSHALL	HONOLULU	WLB	41	541	541
SASSAFRAS HAWAII	HONOLULU	WLB	99	501	281
SASSAFRAS MIDWAY	HONOLULU	WLB	18	352	411
SASSAFRAS SAMOA	HONOLULU	WLB	28	596	618
Totals			416	3336	3144
Avg			138.7	1112	1048

1.8.1 WLB Mallow, Honolulu, HI

Note: The WLB Mallow was partitioned into the WLB Mallow-Hawaii, the WLB Mallow-Johnston, and the WLB Mallow-Marshall to account for different areas and concepts of operations.



18:3:27
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MALLOW-H.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB MALLOW HAWAII
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navais assigned	=	67	(0 Seasonal)
Total Navais serviced	=	67	(0 Seasonal)
Total trips	=	4	
Underway days	=	22	
Deck Space Available	=	6336	
Deck Space Used	=	1194.15	(18.8% utilization)
Avg buoys / trip	=	16.8	
Avg underway days / trip	=	5.5	
Total transit time	=	92:07	
Total service time	=	187:23	
Total idle time (not added)	=	125:45	
Total time			= 279:31

Total short transits	=	57	
Total length of short trips	=	2:10	
Additional prep/deprep time			= 26:20

Avg service time / navaid	=	2:48	
Avg transit time / navaid	=	1:46	
Avg total time / navaid	=	4:34	
Total discrepancies	=	2.56701	
Computed discrepancy hours	=	11:43	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	46:36	

Same time servicing (subtract)	=	96:39	

Total ATON hours used	=	267:30	

Historical ATON hours used	=	112:00	

18:4:9

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MALLOW-J.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB MALLOW JOHNSTON
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	30	(0 Seasonal)
Total Nav aids serviced	=	30	(0 Seasonal)
Total trips	=	1	
Underway days	=	13	
Deck Space Available	=	6400	
Deck Space Used	=	0	(0.0% utilization)
Avg buoys / trip	=	30.0	
Avg underway days / trip	=	13.0	
Total transit time	=	142:18	
Total service time	=	75:34	
Total idle time (not added)	=	62:35	
Total time			= 217:52

Total short transits	=	29	
Total length of short trips	=	1:11	
Additional prep/deprep time	=	13:19	

Avg service time / nav aid	=	2:31	
Avg transit time / nav aid	=	5:11	
Avg total time / nav aid	=	7:42	
Total discrepancies	=	0.123711	
Computed discrepancy hours	=	0:57	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	13:35	

Same time servicing (subtract)	=	35:37	

Total ATON hours used = 210:06

Historical ATON hours used = 210:00

18:4:19
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

MALLOW-M.REP

VESSEL SUMMARY REPORT

Platform Characteristics

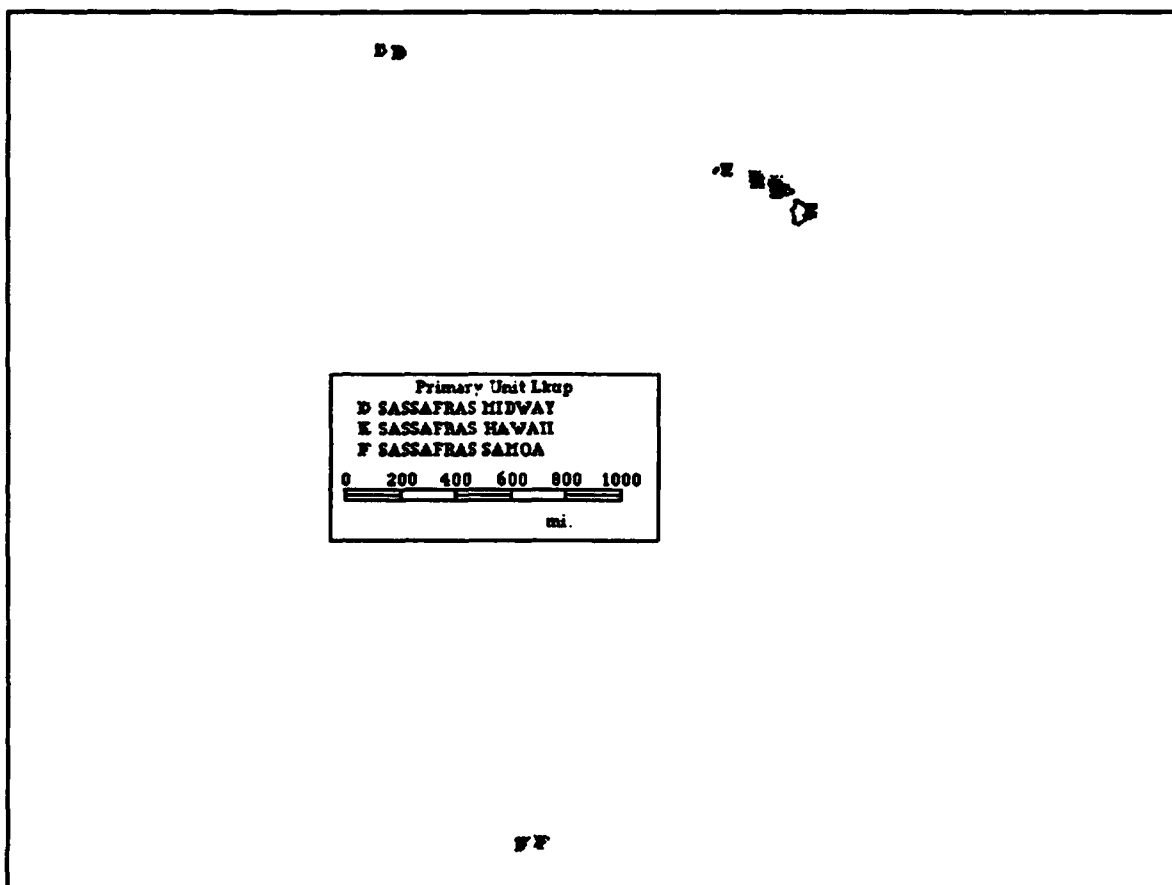
- WLB MALLOW MARSHALL
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	41	(0 Seasonal)
Total Nav aids serviced	=	41	(0 Seasonal)
Total trips	=	1	
Underway days	=	23	
Deck Space Available	=	6400	
Deck Space Used	=	1234.5	(19.3% utilization)
Avg buoys / trip	=	41.0	
Avg underway days / trip	=	28.0	
Total transit time	=	432:15	
Total service time	=	114:08	
Total idle time (not added)	=	94:09	
Total time	=	546:24	
Total short transits	=	36	
Total length of short trips	=	3:55	
Additional prep/deprep time	=	14:05	
Avg service time / nav aid	=	2:47	
Avg transit time / nav aid	=	10:53	
Avg total time / nav aid	=	13:40	
Total discrepancies	=	0.309278	
Computed discrepancy hours	=	4:14	
Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	
Total weather hours	=	19:49	
Same time servicing (subtract)	=	43:20	
Total ATON hours used	=	541:12	*****
Historical ATON hours used	=	541:00	*****

1.8.2 WLB Sassafras, Honolulu, HI

Note: The WLB Sassafras was partitioned into the WLB Sassafras-Hawaii, the WLB Sassafras-Midway, and the WLB Sassafras-Samoa to account for different areas and concepts of operations.



18:4:32
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SASSAF-H.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SASSAFRAS HAWAII
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	=	99	(0 Seasonal)
Total Nav aids serviced	=	99	(0 Seasonal)
Total trips	=	6	
Underway days	=	30	
Deck Space Available	=	9504	
Deck Space Used	=	1253.1	(13.2% utilization)
Avg buoys / trip	=	16.5	
Avg underway days / trip	=	5.0	
Total transit time	=	86:07	
Total service time	=	277:51	
Total idle time (not added)	=	223:24	
Total time	=	363:58	

Total short transits	=	87	
Total length of short trips	=	4:42	
Additional prep/deprep time	=	38:48	

Avg service time / nav aid	=	2:48	
Avg transit time / nav aid	=	1:16	
Avg total time / nav aid	=	4:04	
Total discrepancies	=	19.6994	
Computed discrepancy hours	=	80:09	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	68:53	

Same time servicing (subtract)	=	50:32	

Total ATON hours used	=	501:17	

Historical ATON hours used	=	281:00	

18:6:29

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SASSAF-M.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SASSAFRAS MIDWAY
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	28	(0 Seasonal)
Total Nav aids serviced	=	28	(0 Seasonal)
Total trips	=	1	
Underway days	=	17	

Deck Space Available	=	6400	
Deck Space Used	=	480	(7.5% utilization)

Avg buoys / trip	=	28.0	
Avg underway days / trip	=	17.0	

Total transit time	=	238:07	
Total service time	=	80:43	
Total idle time (not added)	=	60:30	
Total time	=	318:50	

Total short transits	=	25	
Total length of short trips	=	0:39	
Additional prep/deprep time	=	11:51	

Avg service time / nav aid	=	2:53	
Avg transit time / nav aid	=	8:56	
Avg total time / nav aid	=	11:49	

Total discrepancies	=	1.24855	
Computed discrepancy hours	=	14:45	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	22:31	
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Same time servicing (subtract)	=	15:42	
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Total ATON hours used	=	352:14	

Historical ATON hours used	=	411:00	

18:6:39
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SASSAF-S.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SASSAFRAS SAMOA
- Homeport HONOLULU, HI
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	18 (0 Seasonal)
Total Nav aids serviced	=	18 (0 Seasonal)
Total trips	=	1
Underway days	=	24

Deck Space Available	=	6400
Deck Space Used	=	0 (0.0% utilization)

Avg buoys / trip	=	18.0
Avg underway days / trip	=	24.0

Total transit time	=	459:51
Total service time	=	42:45
Total idle time (not added)	=	39:57
Total time	=	502:36

Total short transits	=	12
Total length of short trips	=	0:27
Additional prep/deprep time	=	5:33

Avg service time / nav aid	=	2:22
Avg transit time / nav aid	=	25:51
Avg total time / nav aid	=	28:14

Total discrepancies	=	3.05202
Computed discrepancy hours	=	86:10

Additional Structure Visits	=	0
Additional Structure hours	=	0:00

Total weather hours	=	8:36
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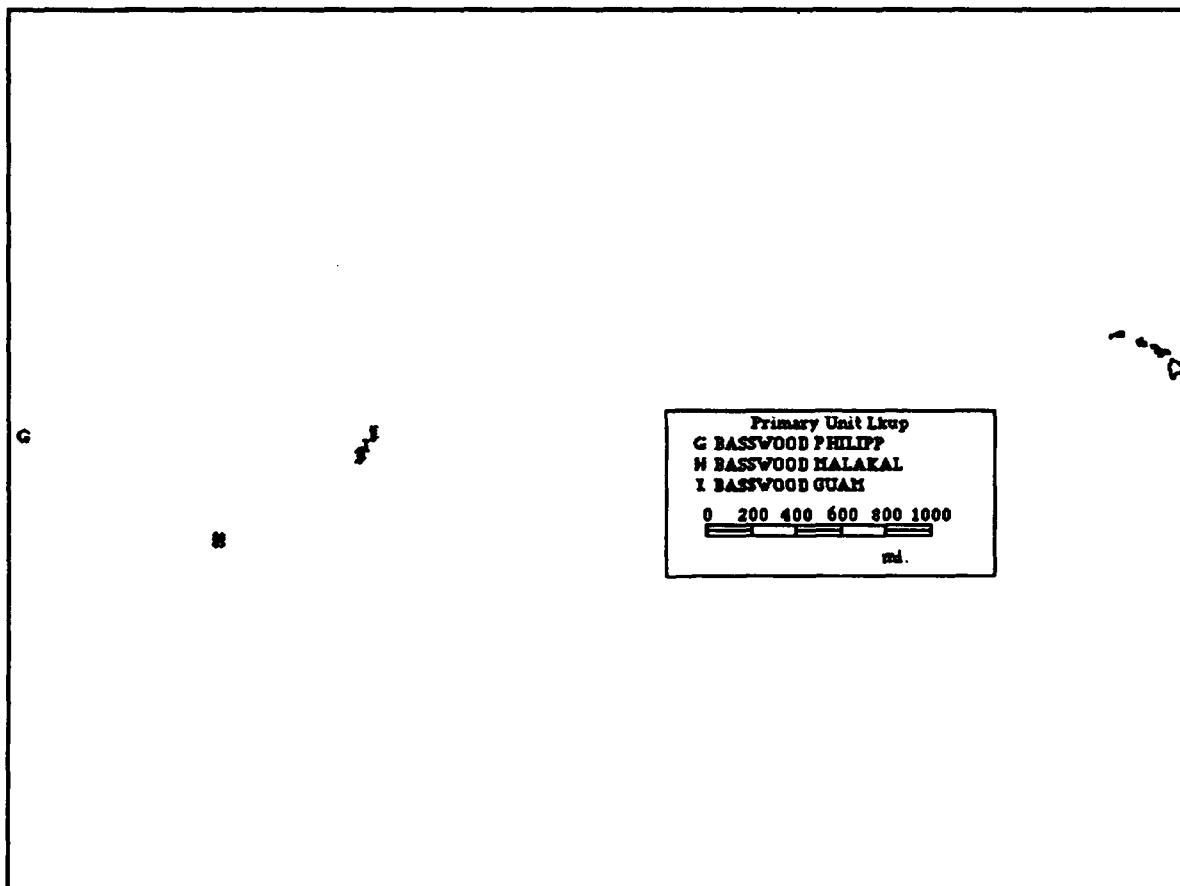
Same time servicing (subtract)	=	7:10
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Total ATON hours used	=	595:45
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Historical ATON hours used	=	618:00
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1.8.3 WLB Basswood, Guam

Note: The WLB Basswood was partitioned into the WLB Basswood-Guam, the WLB Basswood-Philipp, and the WLB Basswood-Malakal to account for different areas and concepts of operations.



18:2:18
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

BASSWD-G.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB BASSWOOD GUAM
- Homeport GUAM (D14)
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 1584 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	=	54	(0 Seasonal)
Total Nav aids serviced	=	54	(0 Seasonal)
Total trips	=	4	
Underway days	=	20	
Deck Space Available	=	6336	
Deck Space Used	=	933	(14.7% utilization)
Avg buoys / trip	=	13.5	
Avg underway days / trip	=	5.0	
Total transit time	=	103:27	
Total service time	=	156:30	
Total idle time (not added)	=	133:58	
Total time			= 259:57

Total short transits	=	45	
Total length of short trips	=	2:10	
Additional prep/deprep time	=	20:20	

Avg service time / nav aid	=	2:54	
Avg transit time / nav aid	=	2:18	
Avg total time / nav aid	=	5:11	
Total discrepancies	=	10.9639	
Computed discrepancy hours	=	56:54	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	11:13	

Same time servicing (subtract)	=	56:14	

Total ATON hours used = 292:11

Historical ATON hours used = 395:00

18:3:20

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

BASSWD-P.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLB BASSWOOD PHILIPP
- Homeport GUAM (D14)
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	16	(0 Seasonal)
Total Nav aids serviced	=	16	(0 Seasonal)
Total trips	=	1	
Underway days	=	15	
Deck Space Available	=	6400	
Deck Space Used	=	1122.75	(17.5% utilization)
Avg buoys / trip	=	16.0	
Avg underway days / trip	=	15.0	
Total transit time	=	271:07	
Total service time	=	47:30	
Total idle time (not added)	=	39:34	
Total time			= 318:37

Total short transits	=	15	
Total length of short trips	=	1:54	
Additional prep/deprep time	=		5:36

Avg service time / nav aid	=	2:58	
Avg transit time / nav aid	=	17:18	
Avg total time / nav aid	=	20:16	
Total discrepancies	=	1.25301	
Computed discrepancy hours	=		25:23

Additional Structure Visits	=	0	
Additional Structure hours	=		0:00

Total weather hours	=		1:37

Same time servicing (subtract)	=		6:47

Total ATON hours used	=	344:26	=====
Historical ATON hours used	=	344:00	=====

18:2:51
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

BASSWD-M.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB BASSWOOD MALAKAL
- Homeport GUAM (D14)
- 10 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

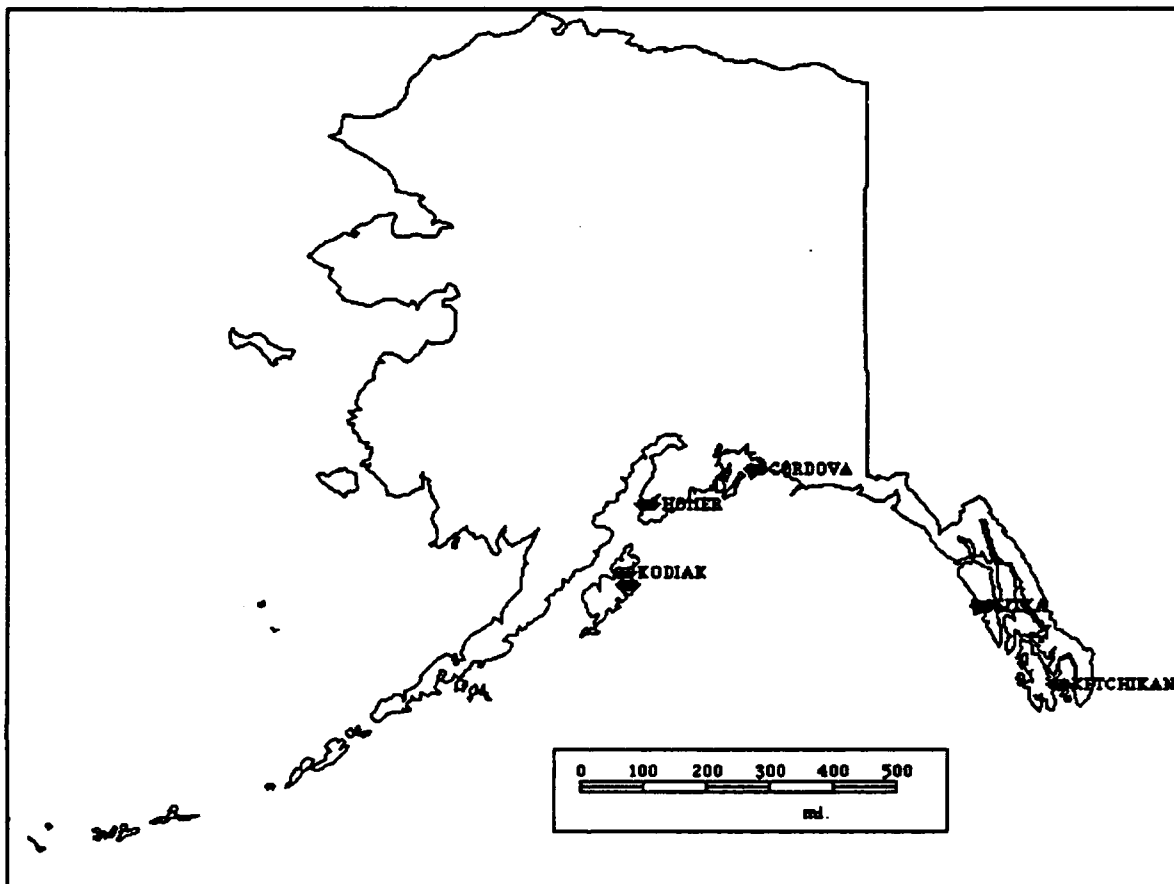
Summary Statistics

Total Nav aids assigned	=	62	(0 Seasonal)
Total Nav aids serviced	=	62	(0 Seasonal)
Total trips	=	1	
Underway days	=	16	
Deck Space Available	=	6400	
Deck Space Used	=	261	(4.1% utilization)
Avg buoys / trip	=	62.0	
Avg underway days / trip	=	16.0	
Total transit time	=	129:45	
Total service time	=	113:18	
Total idle time (not added)	=	116:22	
Total time	=	243:03	
Total short transits	=	61	
Total length of short trips	=	2:45	
Additional prep/deprep time	=	27:45	
Avg service time / nav aid	=	1:50	
Avg transit time / nav aid	=	2:32	
Avg total time / nav aid	=	4:22	
Total discrepancies	=	0.783133	
Computed discrepancy hours	=	3:25	
Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	
Total weather hours	=	32:10	
Same time servicing (subtract)	=	74:42	

Total ATON hours used = 231:41

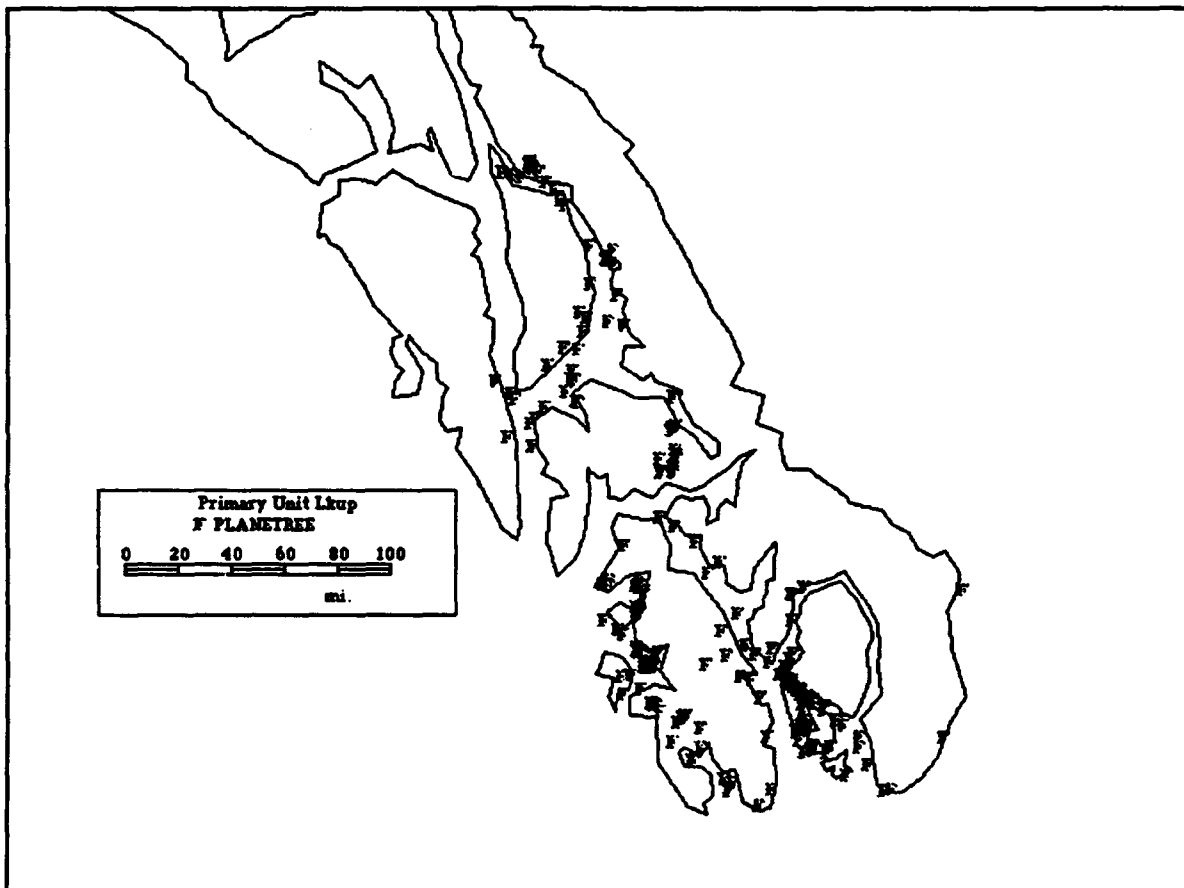
Historical ATON hours used = 232:00

1.9 DISTRICT 17



<u>Vessel</u>	<u>Home Port</u>	<u>Type</u>	<u>Navsids</u>	<u>DSS Hours</u>	<u>Historical Hours</u>
FIREBUSH	KODIAK	WLB	139	1148	1194
IRONWOOD	KODIAK	WLB	94	1911	1769
PLANETREE	KETCHIKAN	WLB	257	1097	1262
SEDGE	HOMER	WLB	97	914	867
SWEETBRIER	CORDOVA	WLB	123	1181	948
WOODRUSH	SITKA	WLB	234	1211	1454
		Totals	944	7462	7494
		Avg	157.3	1244	1249

1.9.1 WLB Planetree, Ketchikan, AK



18:6:48
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

PLANTREE.REP

VESSEL SUMMARY REPORT

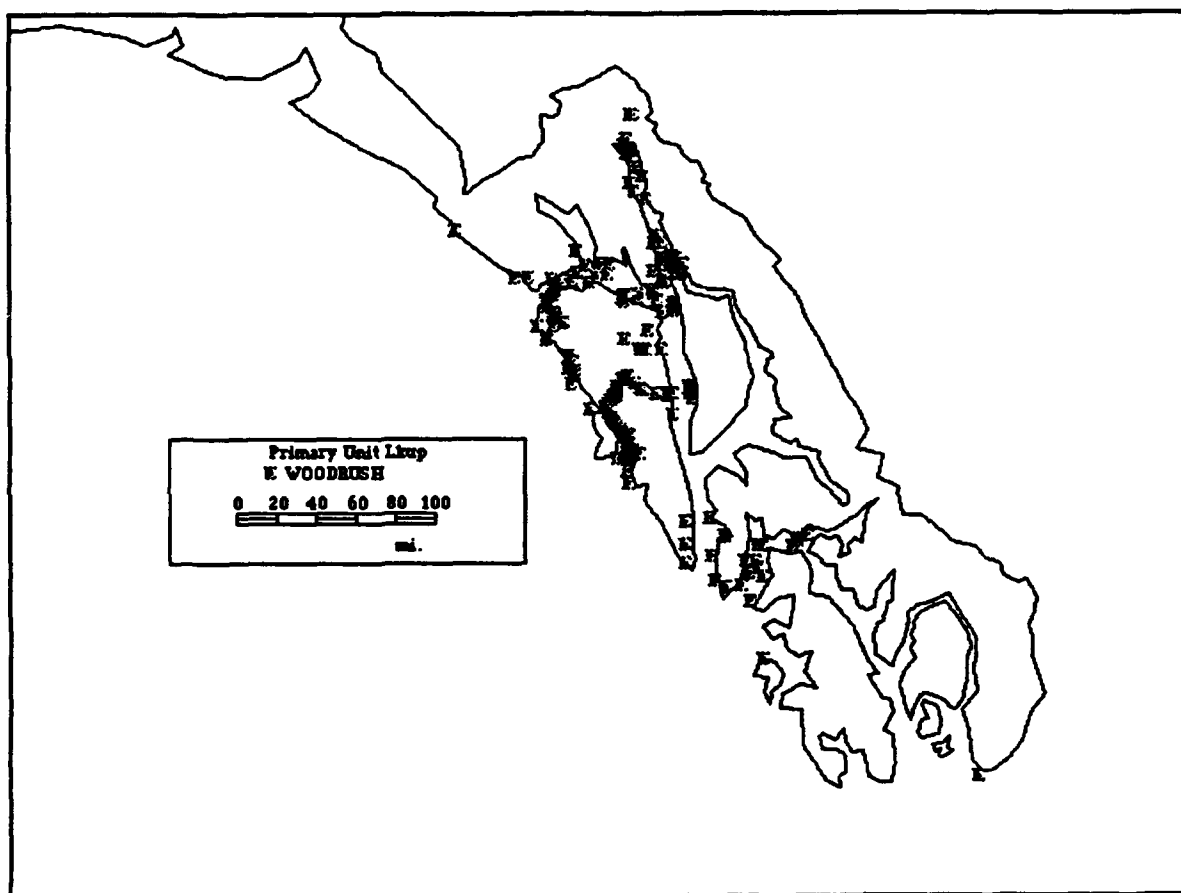
Platform Characteristics

- WLB PLANETREE
- Homeport KETCHIKAN, AK
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 257	(1 Seasonal)
Total Nav aids serviced	= 257	(1 Seasonal)
Total trips	= 10	
Underway days	= 53	
Deck Space Available	= 64000	
Deck Space Used	= 1767.6	(2.8% utilization)
Avg buoys / trip	= 25.8	
Avg underway days / trip	= 5.3	
Total transit time	= 284:28	
Total service time	= 324:26	
Total idle time	= 349:38	
Total time	= 958:32	-----
Total short transits	= 172	
Total length of short trips	= 21:49	
Additional prep/deprep time	= 64:11	-----
Avg service time / nav aid	= 1:15	
Avg transit time / nav aid	= 1:21	
Avg total time / nav aid	= 3:58	
Total discrepancies	= 15	
Computed discrepancy hours	= 59:28	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 137:00	-----
Same time servicing (subtract)	= 121:49	-----
Total ATON hours used	= 1097:22	*****
Historical ATON hours used	= 1262:00	*****

1.9.2 WLB Woodrush, Sitka, AK



18:36:10
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

WOODRUSH.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB WOODRUSH
- Homeport SITKA, AK
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 234 (4 Seasonal)	
Total Nav aids serviced	= 234 (4 Seasonal)	
Total trips	= 10	
Underway days	= 51	
Deck Space Available	= 64000	
Deck Space Used	= 4557.9 (7.1% utilization)	
Avg buoys / trip	= 23.8	
Avg underway days / trip	= 5.1	
Total transit time	= 255:18	
Total service time	= 369:26	
Total idle time	= 355:32	
Total time	= 980:16	

Total short transits	= 150	
Total length of short trips	= 21:26	
Additional prep/deprep time	= 53:34	

Avg service time / nav aid	= 1:33	
Avg transit time / nav aid	= 1:18	
Avg total time / nav aid	= 4:21	
Total discrepancies	= 14.4411	
Computed discrepancy hours	= 62:44	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

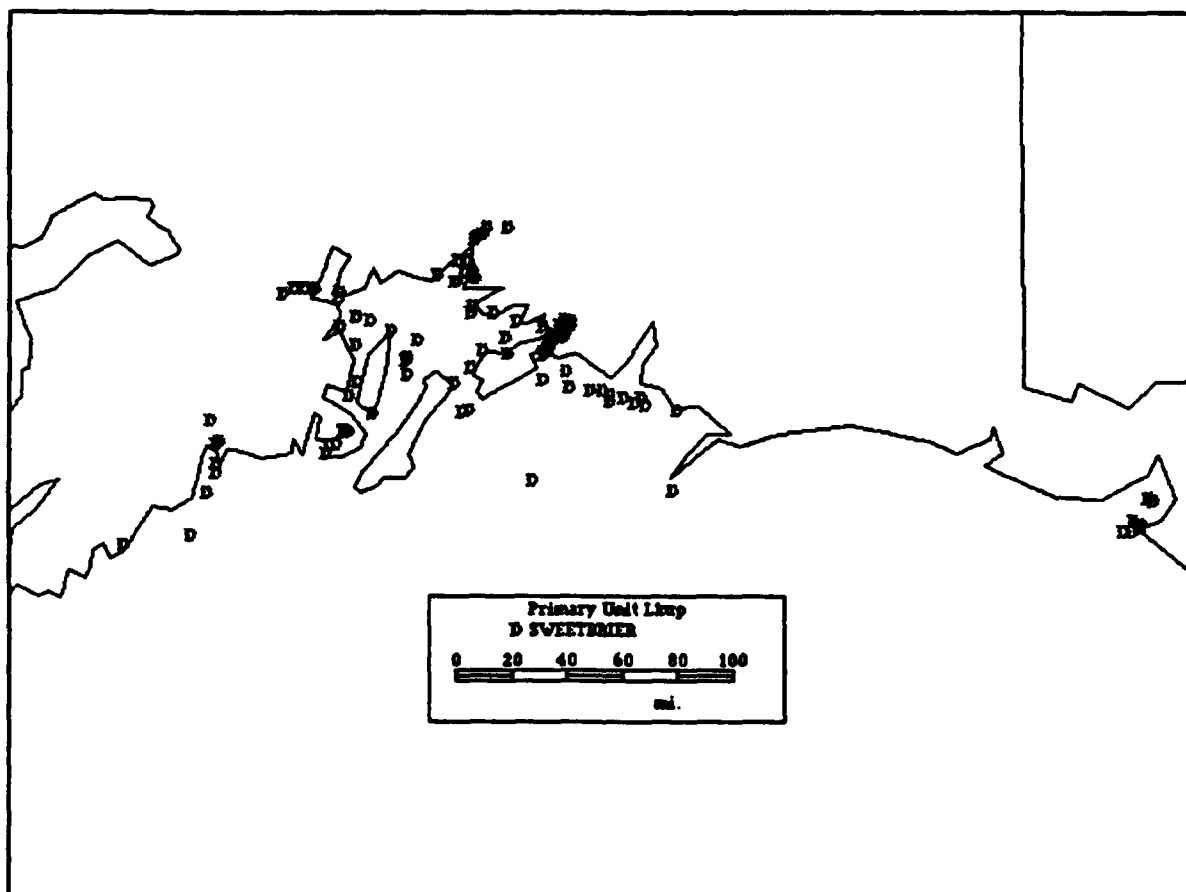
Total weather hours	= 260:00	

Same time servicing (subtract)	= 145:27	

Total ATON hours used	= 1211:08	

Historical ATON hours used	= 1454:00	

1.9.3 WLB Sweetbrier, Cordova, AK



19:13:25
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SW-BRIER.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SWEETBRIER
- Homeport CORDOVA, AK
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 123	(21 Seasonal)
Total Nav aids serviced	= 123	(21 Seasonal)
Total trips	= 7	
Underway days	= 36	
Deck Space Available	= 44800	
Deck Space Used	= 1235.55	(2.8% utilization)
Avg buoys / trip	= 20.6	
Avg underway days / trip	= 5.1	
Total transit time	= 144:59	
Total service time	= 312:24	
Total idle time	= 249:05	
Total time	= 706:29	

Total short transits	= 90	
Total length of short trips	= 13:00	
Additional prep/deprep time	= 32:00	

Avg service time / nav aid	= 2:10	
Avg transit time / nav aid	= 1:14	
Avg total time / nav aid	= 5:08	
Total discrepancies	= 6	
Computed discrepancy hours	= 30:46	

Additional Structure Visits	= 20.1	
Additional Structure hours	= 68:55	

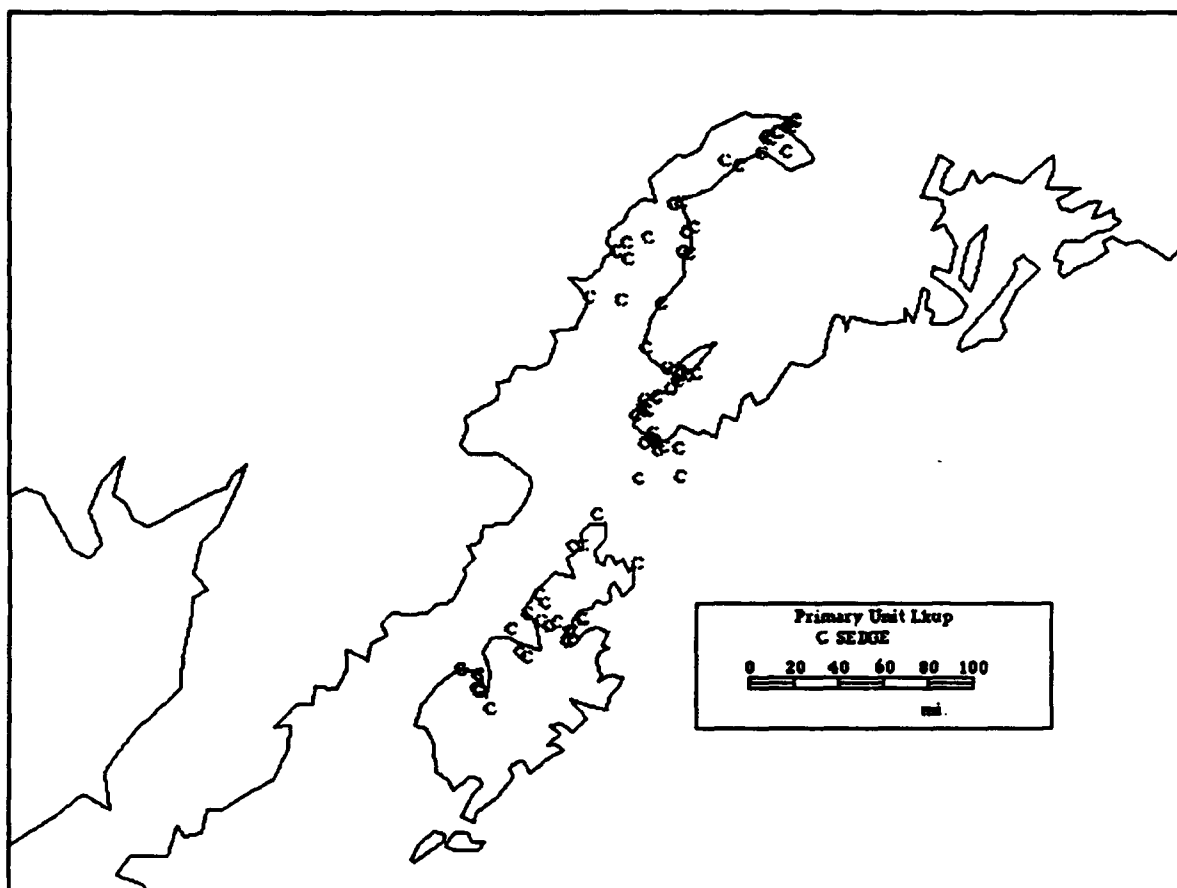
Total weather hours	= 350:00	

Same time servicing (subtract)	= 7:22	

Total ATON hours used	= 1180:48	

Historical ATON hours used	= 948:00	

1.9.4 WLB Sedge, Homer, AK



19:19:8
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

SEDGE.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB SEDGE
- Homeport HOMER, AK
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	=	97 (10 Seasonal)	
Total Nav aids serviced	=	94 (10 Seasonal)	
Total trips	=	7	
Underway days	=	32	
Deck Space Available	=	44800	
Deck Space Used	=	4606.5 (10.3% utilization)	
Avg buoys / trip	=	14.9	
Avg underway days / trip	=	4.6	
Total transit time	=	165:14	
Total service time	=	241:30	
Total idle time	=	219:39	
Total time	=	626:23	

Total short transits	=	54	
Total length of short trips	=	8:20	
Additional prep/deprep time	=	18:40	

Avg service time / nav aid	=	2:19	
Avg transit time / nav aid	=	1:46	
Avg total time / nav aid	=	6:12	
Total discrepancies	=	8.83065	
Computed discrepancy hours	=	54:46	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

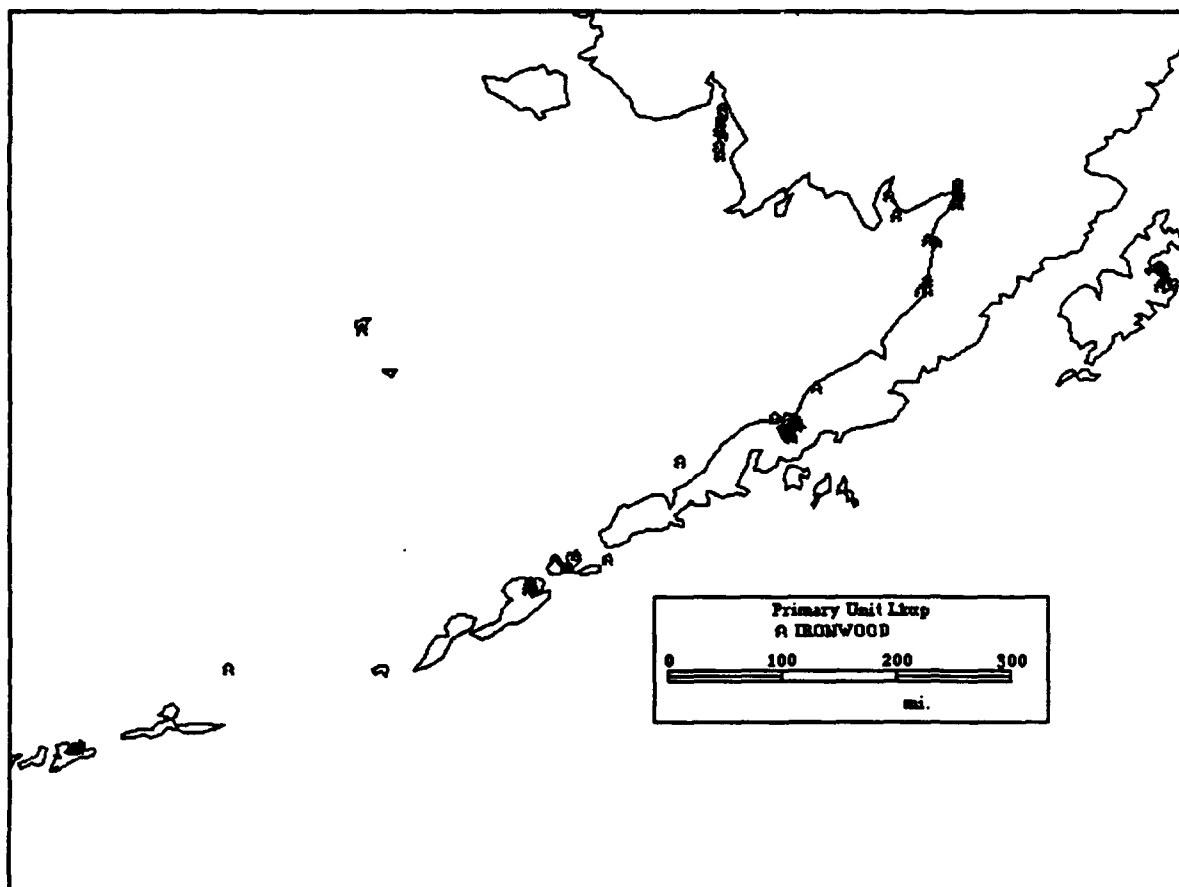
Total weather hours	=	238:09	

Same time servicing (subtract)	=	24:09	

Total ATON hours used	=	913:50	

Historical ATON hours used	=	867:00	

1.9.5 WLB Ironwood, Kodiak, AK



19:31:7

Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

IRONWOOD.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLB IRONWOOD
- Homeport KODIAK, AK
- 10 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Navaids assigned	=	94	(28 Seasonal)
Total Navaids serviced	=	94	(28 Seasonal)
Total trips	=	7	
Underway days	=	73	
Deck Space Available	=	44800	
Deck Space Used	=	4325.67	(9.7% utilization)
Avg buoys / trip	=	17.4	
Avg underway days / trip	=	10.4	
Total transit time	=	1042:11	
Total service time	=	276:08	
Total idle time	=	227:52	
Total time	=	1546:11	

Total short transits	=	70	
Total length of short trips	=	9:36	
Additional prep/deprep time	=	25:24	

Avg service time / navaid	=	2:16	
Avg transit time / navaid	=	8:45	
Avg total time / navaid	=	12:53	
Total discrepancies	=	6.9	
Computed discrepancy hours	=	88:53	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

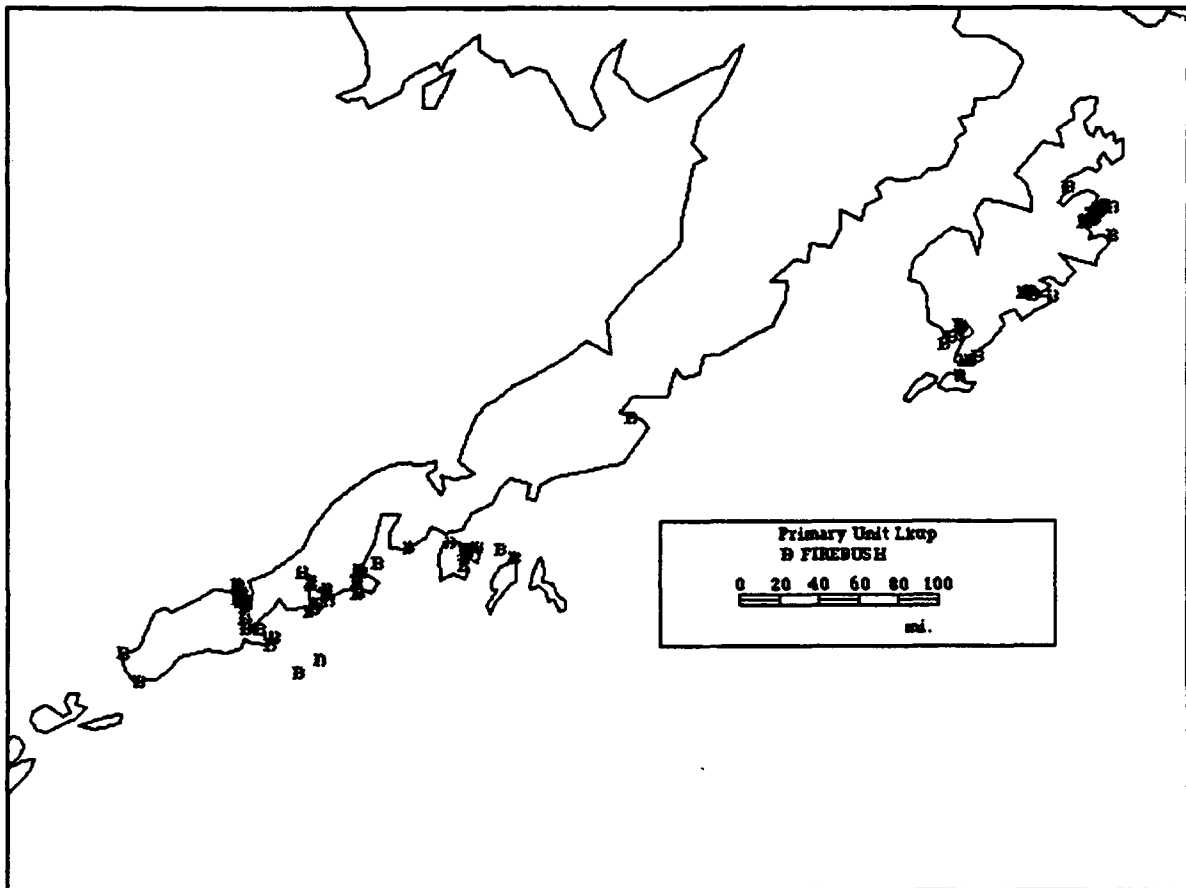
Total weather hours	=	250:00	

Same time servicing (subtract)	=	0:00	

Total ATON hours used	=	1910:28	

Historical ATON hours used	=	1769:00	

1.9.6 WLB Firebush, Kodiak, AK



19:24:49
Tuesday 1/7/1992

ATON SERVICE FORCE MIX DSS

FIREBUSH.REP

VESSEL SUMMARY REPORT

Platform Characteristics

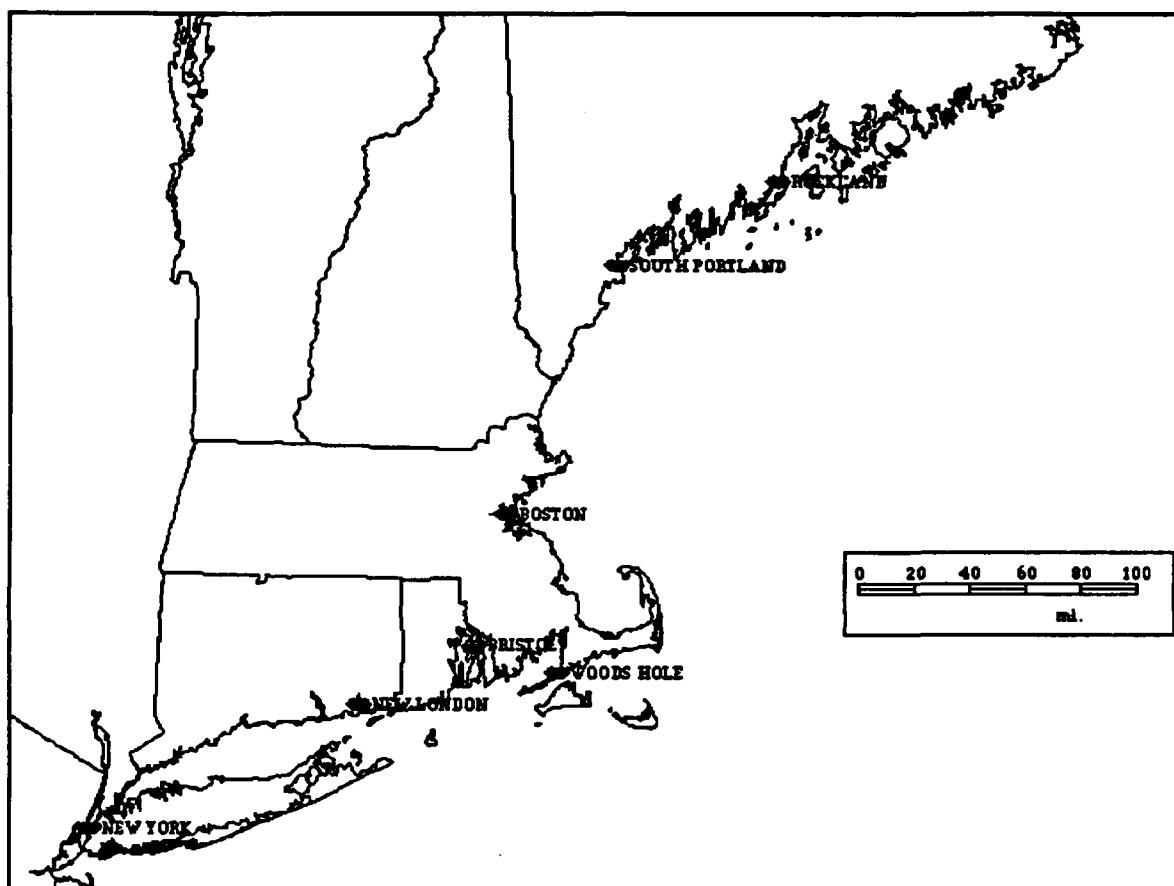
- WLB FIREBUSH
- Homeport KODIAK, AK
- 10 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 18:00
- 6400 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 139	(0 Seasonal)
Total Nav aids serviced	= 139	(0 Seasonal)
Total trips	= 4	
Underway days	= 41	
Deck Space Available	= 25600	
Deck Space Used	= 2605.8	(10.2% utilization)
Avg buoys / trip	= 34.8	
Avg underway days / trip	= 10.3	
Total transit time	= 271:38	
Total service time	= 281:00	
Total idle time	= 248:36	
Total time	= 801:15	-----
Total short transits	= 106	
Total length of short trips	= 11:22	
Additional prep/deprep time	= 41:38	-----
Avg service time / nav aid	= 2:01	
Avg transit time / nav aid	= 2:15	
Avg total time / nav aid	= 6:04	
Total discrepancies	= 5	
Computed discrepancy hours	= 30:19	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 300:00	-----
Same time servicing (subtract)	= 25:25	-----
Total ATON hours used	= 1147:47	=====
Historical ATON hours used	= 1194:00	=====

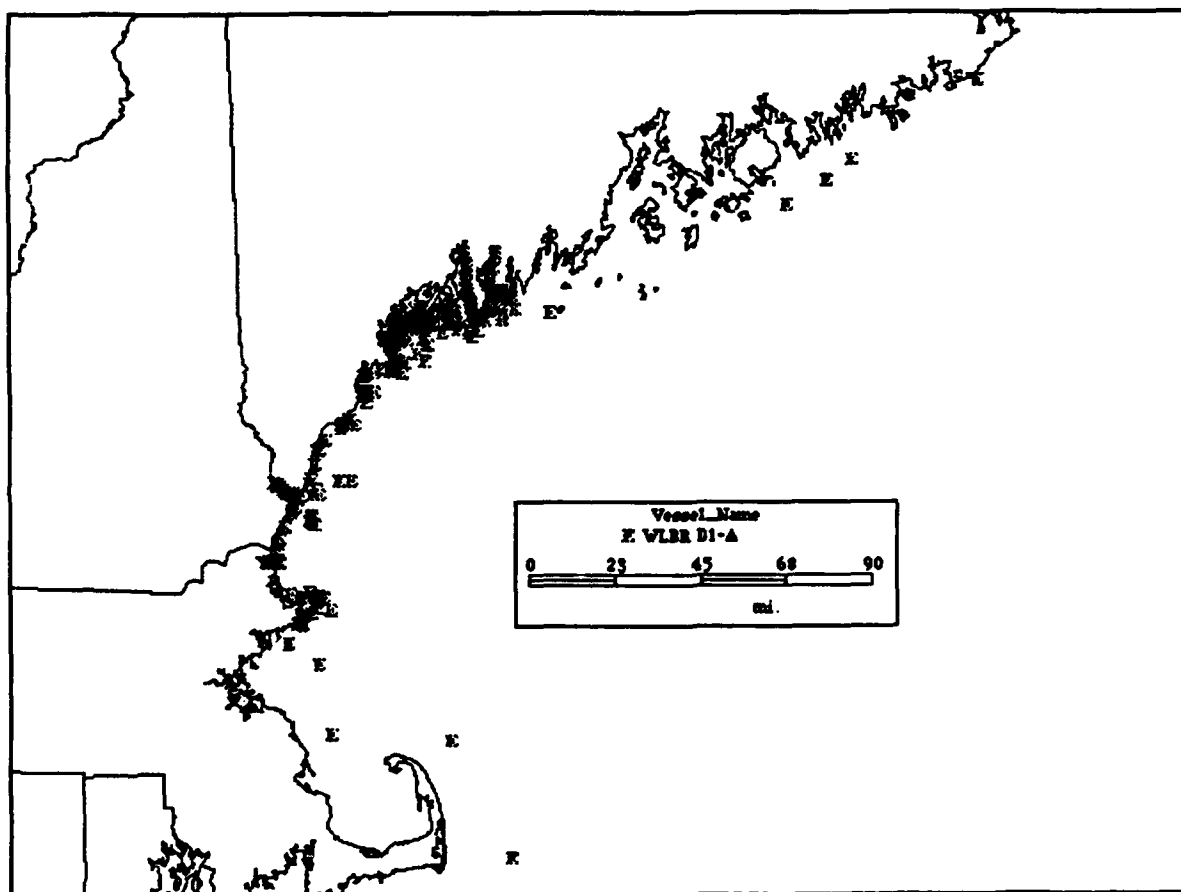
2. PROPOSED FLEET RESULTS

2.1 DISTRICT 1



<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>Hours</u>
NEW YORK	----		
WOODS HOLE	----		
SOUTH PORTLAND	WLBR	297	1153
NEW YORK	WLMR	390	1086
NEW LONDON	WLBR	232	1076
BRISTOL	WLMR	344	1246
BOSTON	WLMR	300	1202
ROCKLAND	WLMR	418	1200
Totals		1981	6963
Avg		330	1161

2.1.1 WLBR South Portland, ME



22:3:2

Wednesday 4/1/1992

ATON SERVICE FORCE MIX DSS

CAUCHY.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR D1-A
- Homeport SOUTH PORTLAND, ME
- 12 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 297 (10 Seasonal)	
Total Navaids serviced	= 297 (10 Seasonal)	
Total trips	= 14	
Underway days	= 37	
Deck Space Available	= 35000	
Deck Space Used	= 12531.3 (35.8% utilization)	
Avg buoys / trip	= 21.9	
Avg underway days / trip	= 2.6	
Total transit time	= 130:53	
Total service time	= 223:28	
Total idle time	= 237:37	
Total time	= 591:58	

Total short transits	= 274	
Total length of short trips	= 29:48	
Additional prep/deprep time	= 107:12	

Avg service time / navaid	= 0:44	
Avg transit time / navaid	= 0:47	
Avg total time / navaid	= 2:17	
Total discrepancies	= 59.6025	
Computed discrepancy hours	= 135:44	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 74:51	

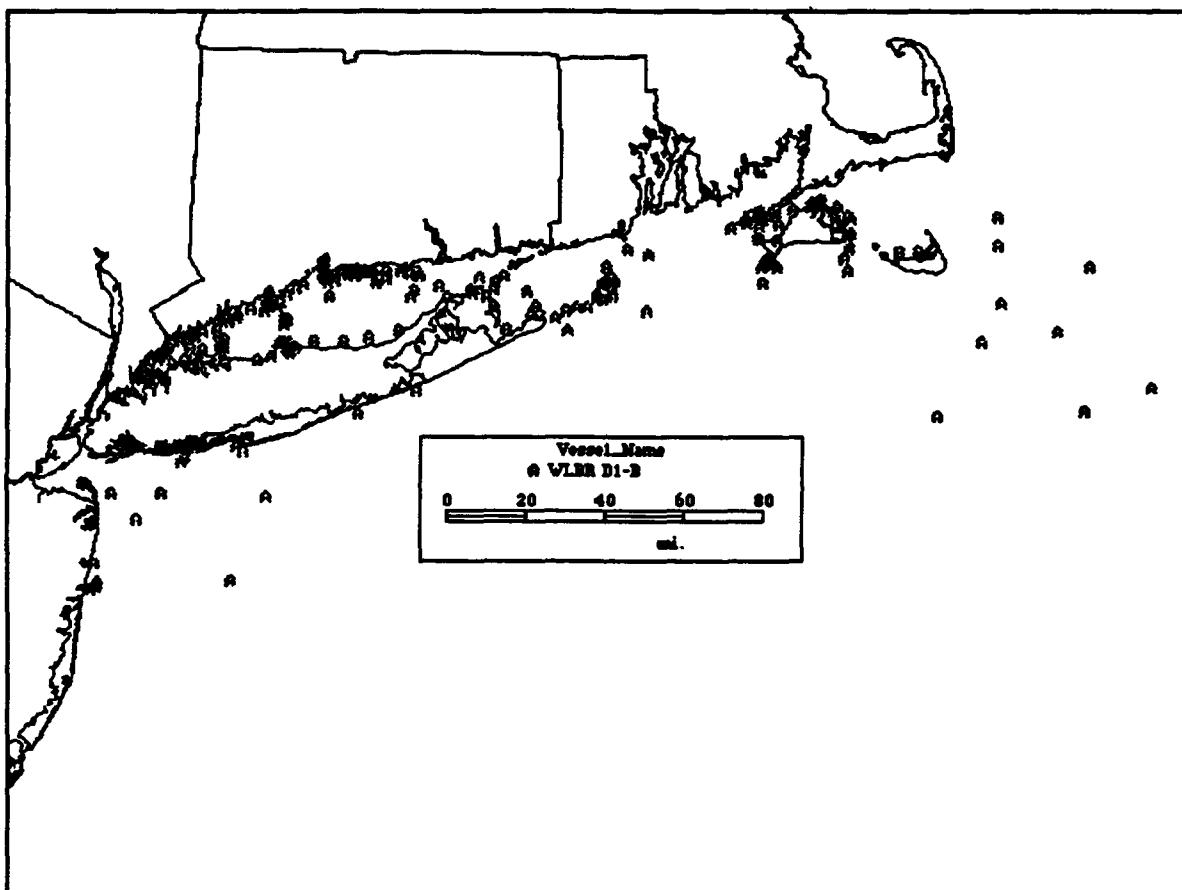
Same time servicing (subtract)	= 7:11	

Total ATON hours used	= 902:34 ¹	

Historical ATON hours used	= 1260:00	

¹plus 250 lighthouse maintenance hours.

2.1.2 WLBR New London, CT



17:20:32
Thursday 4/2/1992

ATON SERVICE FORCE MIX DSS

POISSON.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR D1-B
- Homeport NEW LONDON, CT
- 12 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 232	(7 Seasonal)	
Total Nav aids serviced	= 232	(7 Seasonal)	
Total trips	= 12		
Underway days	= 36		
Deck Space Available	= 30000		
Deck Space Used	= 9848.4	(32.8% utilization)	
Avg buoys / trip	= 19.9		
Avg underway days / trip	= 3.0		
Total transit time	= 194:10		
Total service time	= 205:51		
Total idle time	= 225:28		
Total time		= 625:28	

Total short transits	= 181		
Total length of short trips	= 26:06		
Additional prep/deprep time		= 64:24	

Avg service time / nav aid	= 0:52		
Avg transit time / nav aid	= 1:05		
Avg total time / nav aid	= 2:53		
Total discrepancies	= 32.4409		
Computed discrepancy hours		= 93:38	

Additional Structure Visits	= 0		
Additional Structure hours		= 0:00	

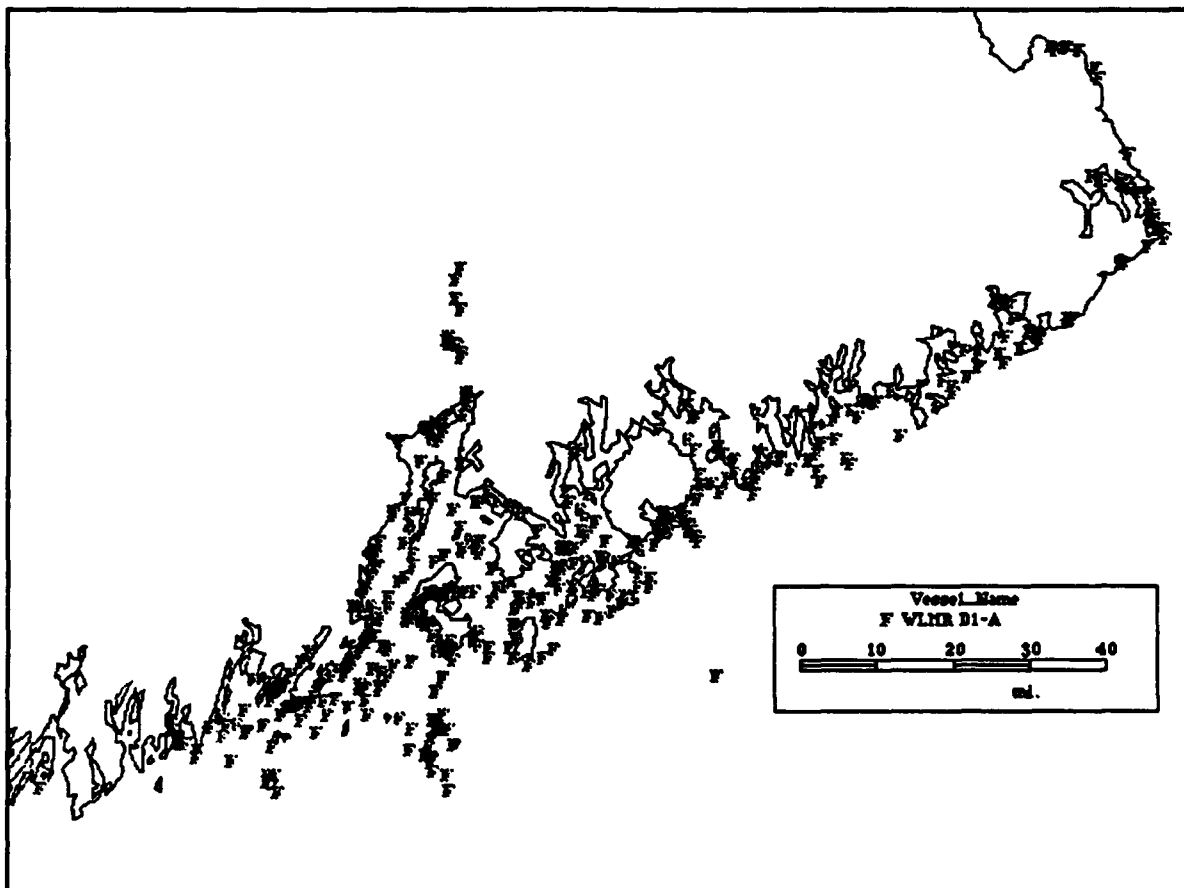
Total weather hours		= 64:02	

Same time servicing (subtract)		= 21:46	

Total ATON hours used		= 825:46 ¹	
		=====	
Historical ATON hours used		= 1260:00	
		=====	

¹plus 250 lighthouse maintenance hours.

2.1.3 WLMR Rockland, ME



18:24:25

Wednesday 4/1/1992

ATON SERVICE FORCE MIX DSS

JENKINS.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR D1-A
- Homeport ROCKLAND, ME
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 418 (2 Seasonal)	
Total Navaids serviced	= 418 (2 Seasonal)	
Total trips	= 19	
Underway days	= 56	
Deck Space Available	= 22800	
Deck Space Used	= 8959.05 (39.3% utilization)	
Avg buoys / trip	= 22.1	
Avg underway days / trip	= 2.9	
Total transit time	= 209:00	
Total service time	= 287:34	
Total idle time (not added)	= 438:36	
Total time		= 496:34

Total short transits	= 362	
Total length of short trips	= 55:22	
Additional prep/deprep time		= 125:38

Avg service time / navaid	= 0:41	
Avg transit time / navaid	= 0:48	
Avg total time / navaid	= 1:29	
Total discrepancies	= 66.8995	
Computed discrepancy hours		= 99:06

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 235:52

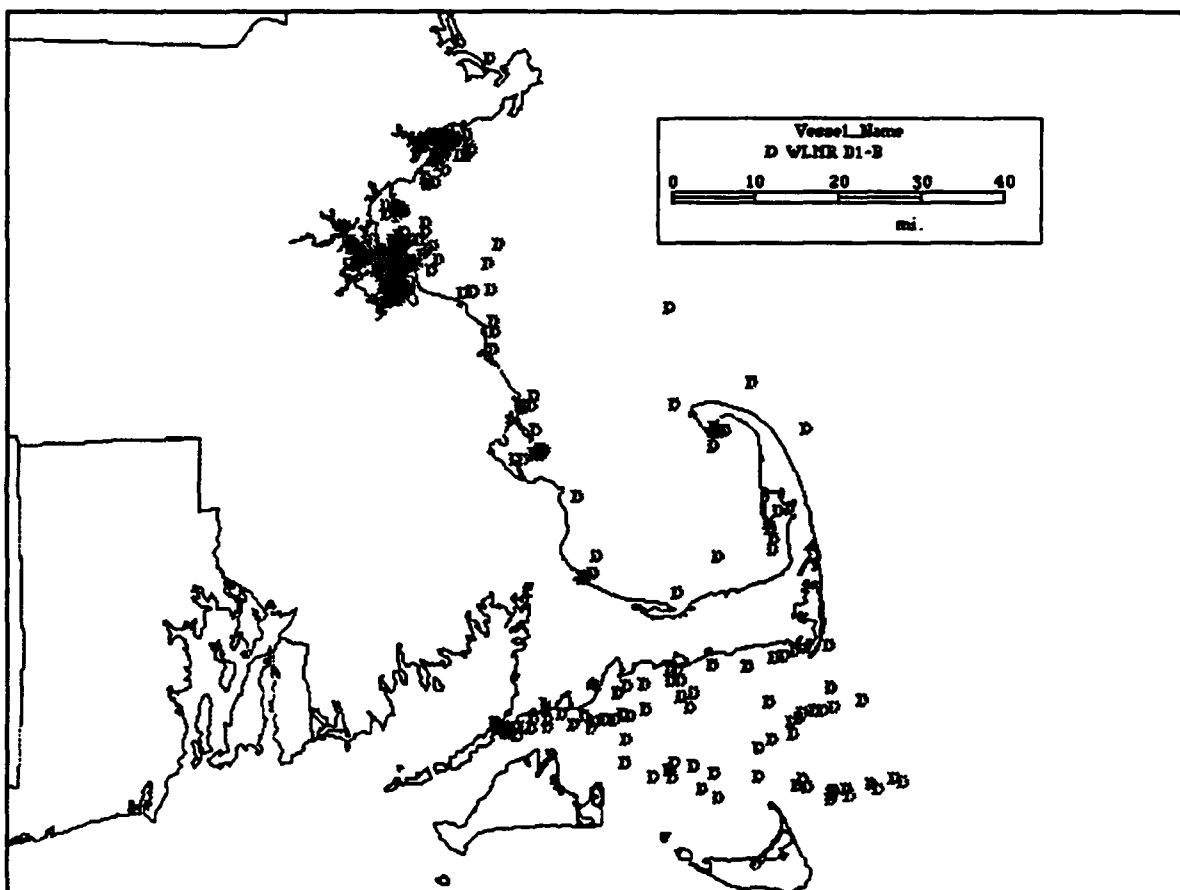
Same time servicing (subtract)		= 7:12

Total ATON hours used		= 949:58 ¹

Historical ATON hours used		= 1275:00

¹plus 250 lighthouse maintenance hours.

2.1.4 WLMR Boston, MA



22:50:40
Wednesday 4/1/1992

ATON SERVICE FORCE MIX DSS

BOX.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR D1-B
- Homeport BOSTON, MA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 300	(28 Seasonal)
Total Nav aids serviced	= 300	(28 Seasonal)
Total trips	= 21	
Underway days	= 52	
Deck Space Available	= 25200	
Deck Space Used	= 15548	(61.7% utilization)
Avg buoys / trip	= 15.6	
Avg underway days / trip	= 2.5	
Total transit time	= 215:35	
Total service time	= 266:15	
Total idle time (not added)	= 374:00	
Total time		= 481:51

Total short transits	= 270	
Total length of short trips	= 30:05	
Additional prep/deprep time		= 104:55

Avg service time / nav aid	= 0:49	
Avg transit time / nav aid	= 0:59	
Avg total time / nav aid	= 1:47	
Total discrepancies	= 57.7607	
Computed discrepancy hours		= 103:20

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

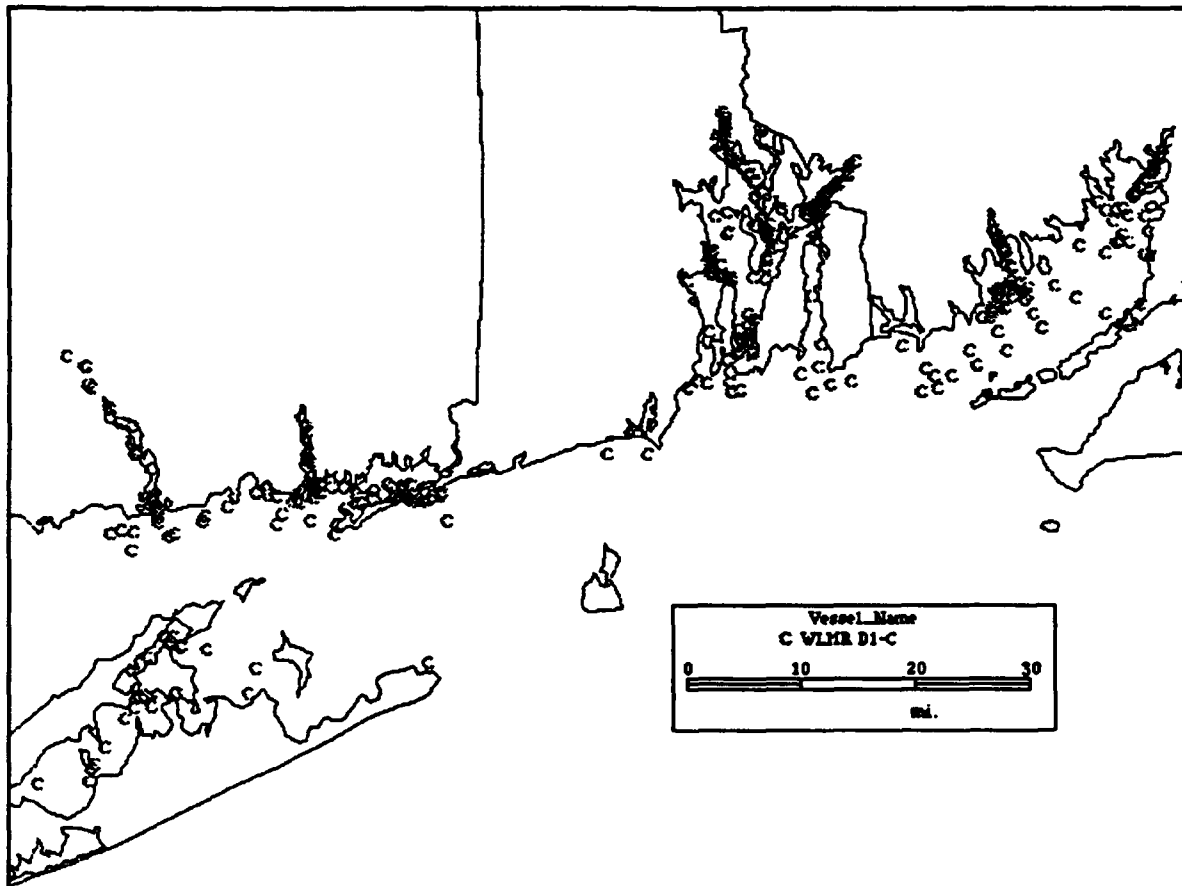
Total weather hours		= 262:11

Same time servicing (subtract)		= 0:00

Total ATON hours used		= 952:16 ¹
		=====
Historical ATON hours used		= 1275:00
		=====

¹plus 250 lighthouse maintenance hours.

2.1.5 WLMR Bristol, RI



4:14:9

Thursday 4/2/1992

ATON SERVICE FORCE MIX DSS

BERNOULL.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

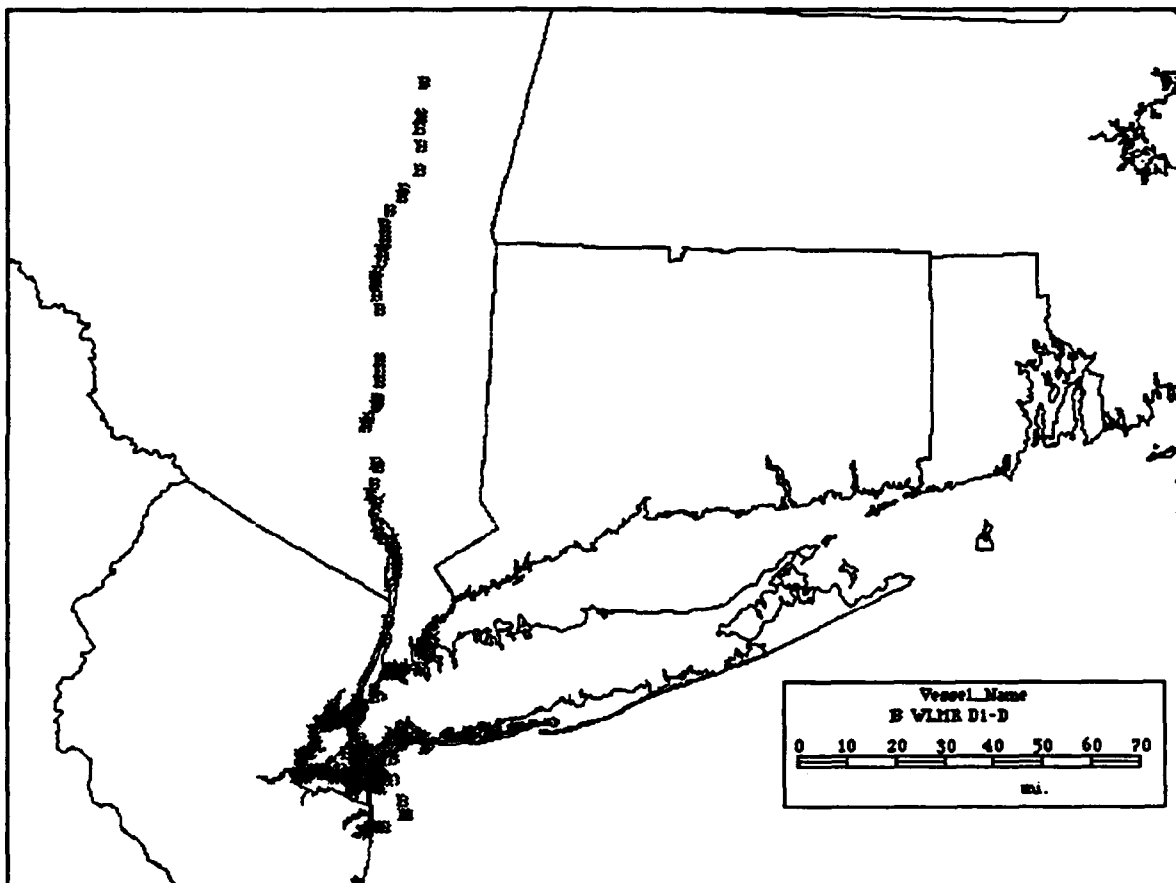
- WLMR D1-C
- Homeport BRISTOL, RI
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 344	(54 Seasonal)
Total Navaids serviced	= 344	(54 Seasonal)
Total trips	= 31	
Underway days	= 65	
Deck Space Available	= 37200	
Deck Space Used	= 25573.5	(68.7% utilization)
Avg buoys / trip	= 12.8	
Avg underway days / trip	= 2.1	
Total transit time	= 262:49	
Total service time	= 307:50	
Total idle time (not added)	= 431:24	
Total time	= 570:39	-----
Total short transits	= 340	
Total length of short trips	= 38:05	
Additional prep/deprep time	= 131:55	-----
Avg service time / navaid	= 0:46	
Avg transit time / navaid	= 1:00	
Avg total time / navaid	= 1:46	
Total discrepancies	= 34.4461	
Computed discrepancy hours	= 60:48	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 249:51	-----
Same time servicing (subtract)	= 16:23	-----
Total ATON hours used	= 996:51 ¹	=====
Historical ATON hours used	= 1275:00	=====

¹plus 250 lighthouse maintenance hours.

2.1.6 WLMR New York, NY



18:50:18
Thursday 4/2/1992

ATON SERVICE FORCE MIX DSS

BAYES.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR D1-D
- Homeport NEW YORK, NY
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 390	(46 Seasonal)
Total Nav aids serviced	= 390	(46 Seasonal)
Total trips	= 27	
Underway days	= 66	
Deck Space Available	= 32400	
Deck Space Used	= 22372.4	(69.1% utilization)
Avg buoys / trip	= 16.1	
Avg underway days / trip	= 2.4	
Total transit time	= 219:40	
Total service time	= 349:45	
Total idle time (not added)	= 504:00	
Total time		= 569:26

Total short transits	= 371	
Total length of short trips	= 31:55	
Additional prep/deprep time		= 153:35

Avg service time / nav aid	= 0:48	
Avg transit time / nav aid	= 0:51	
Avg total time / nav aid	= 1:39	
Total discrepancies	= 103.85	
Computed discrepancy hours		= 172:13

Additional Structure Visits	= 3.8	
Additional Structure hours		= 11:03

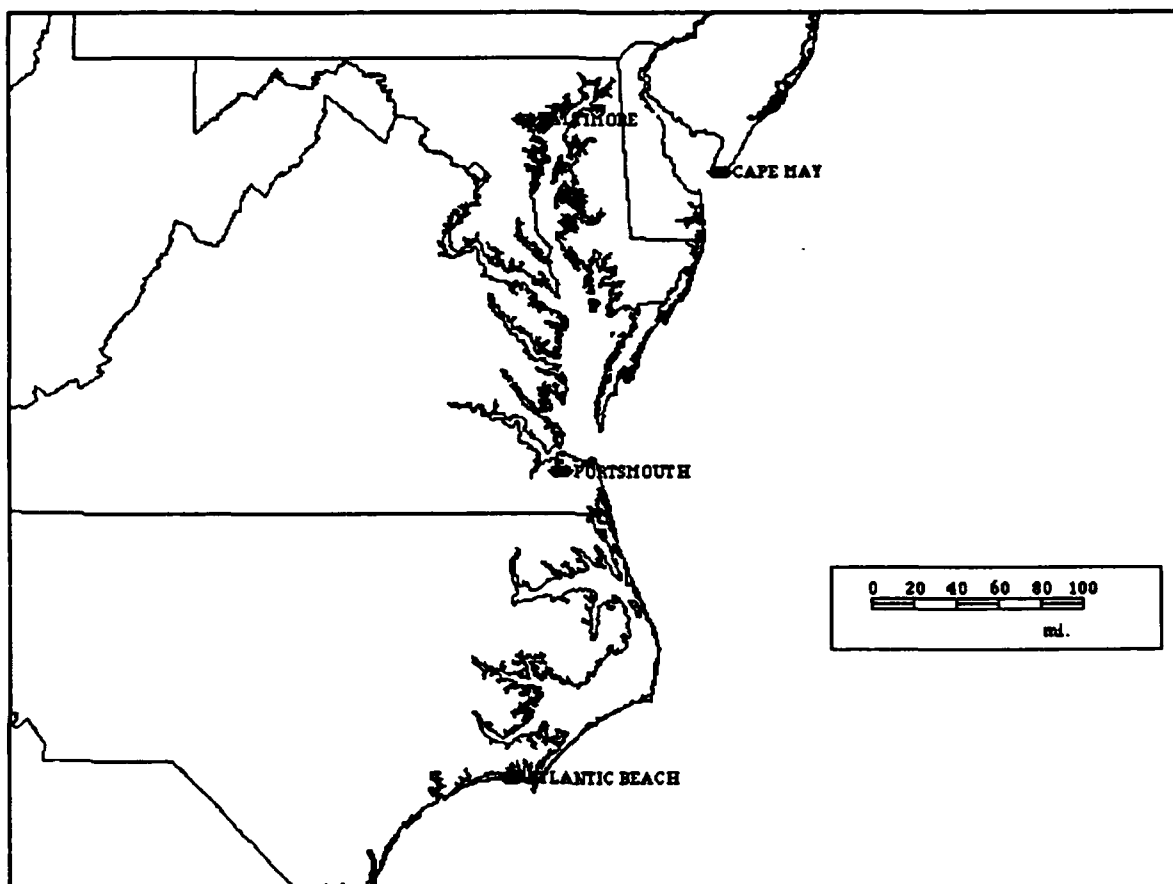
Total weather hours		= 78:23

Same time servicing (subtract)		= 148:08

Total ATON hours used	= 836:31 ¹	
		=====
Historical ATON hours used	= 1275:00	
		=====

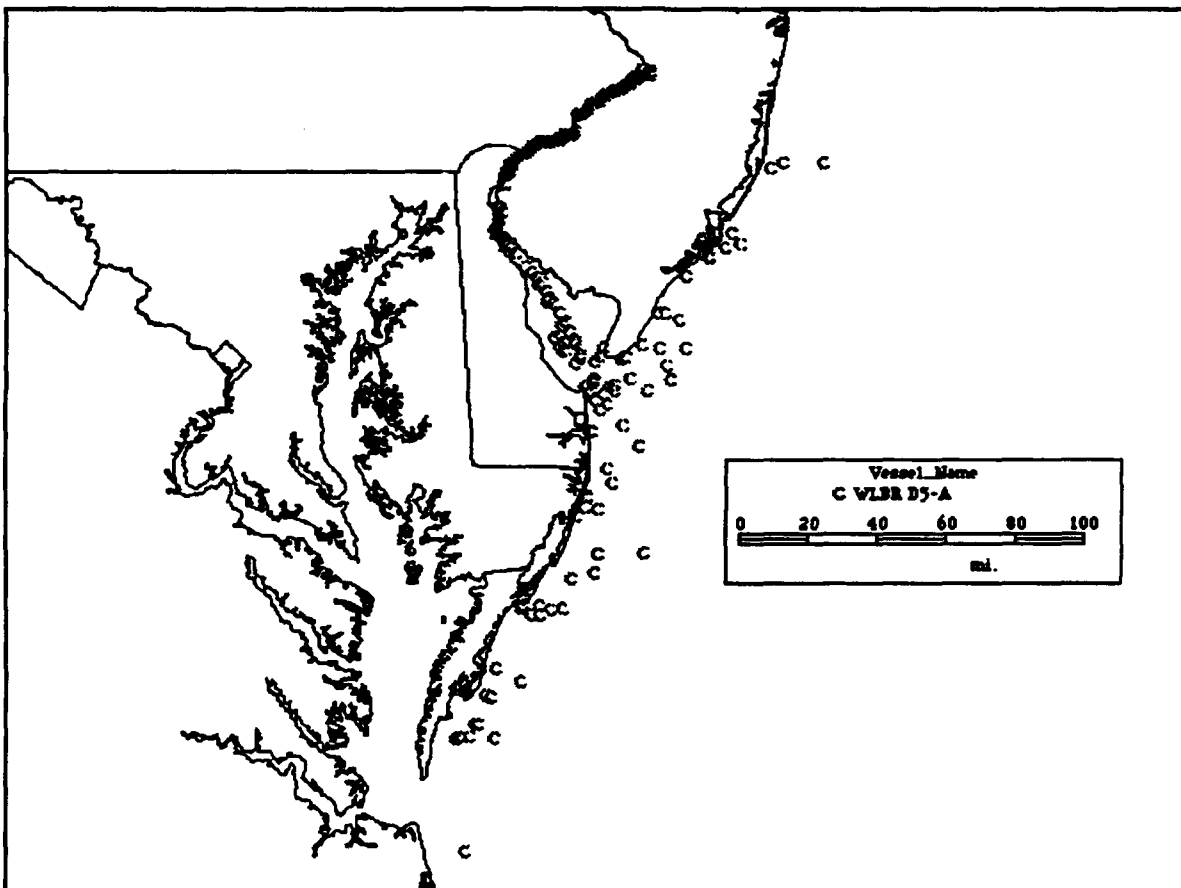
¹plus 250 lighthouse maintenance hours.

2.2 DISTRICT 5



Home Port	Type	Nav aids	Hours
CAPE MAY	WLBR	244	1071
PORTSMOUTH	WLMR	401	1263
ATLANTIC BEACH	WLMR	194	1267
PHILADELPHIA	----		
BALTIMORE	WLMR	408	1120
PORTSMOUTH	----		
Totals		1247	4721
Avg		312	1180

2.2.1 WLBR Cape May, NJ



1:45:30
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D5A.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D5-A
- Homeport CAPE MAY, NJ
- 12 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 244 (1 Seasonal)
Total Navaids serviced	= 244 (1 Seasonal)
Total trips	= 11
Underway days	= 34

Deck Space Available	= 27500
Deck Space Used	= 13454.5 (48.9% utilization)

Avg buoys / trip	= 22.3
Avg underway days / trip	= 3.1

Total transit time	= 147:06
Total service time	= 202:42
Total idle time	= 214:47
Total time	= 564:34

Total short transits	= 192
Total length of short trips	= 21:24
Additional prep/deprep time	= 74:36

Avg service time / navaid	= 0:50
Avg transit time / navaid	= 0:54
Avg total time / navaid	= 2:37

Total discrepancies	= 47.7207
Computed discrepancy hours	= 124:30

Additional Structure Visits	= 0
Additional Structure hours	= 0:00

Total weather hours	= 75:03
---------------------	---------

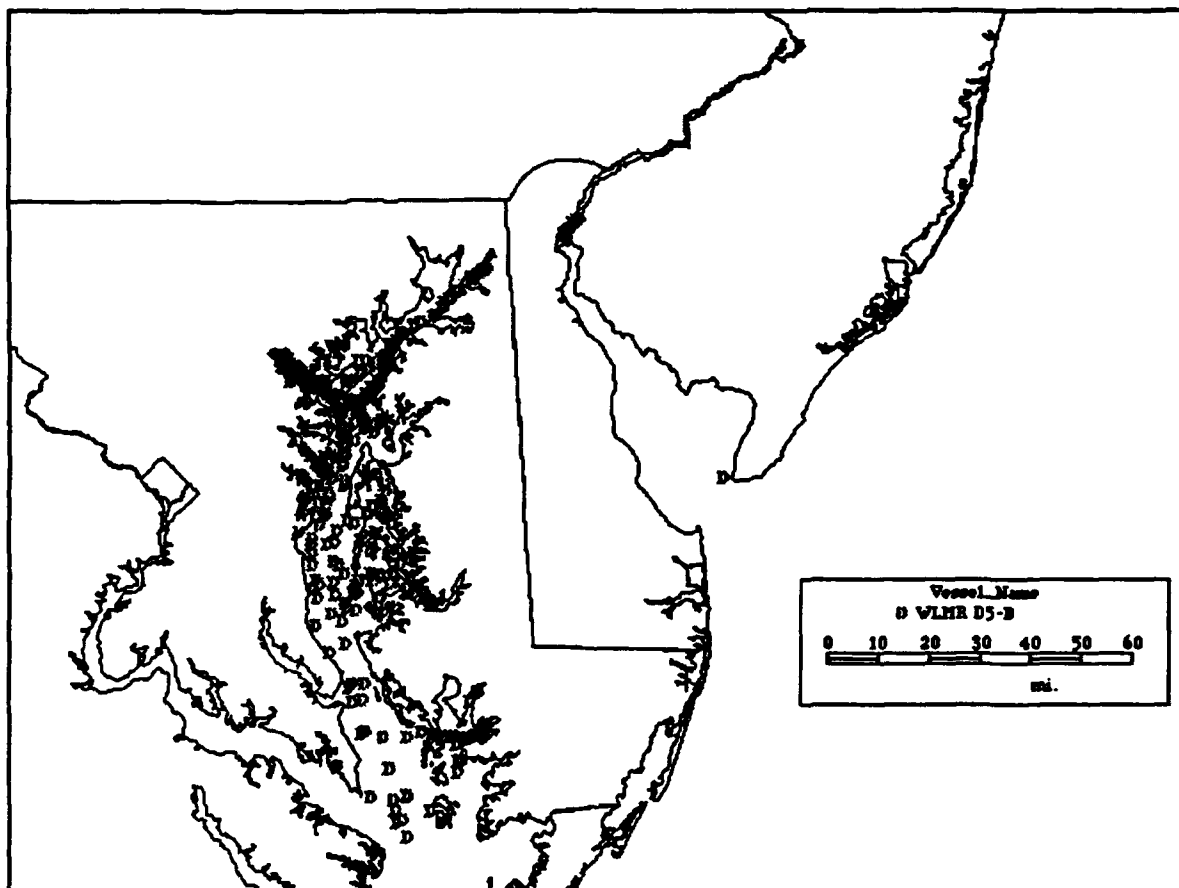
Same time servicing (subtract)	= 17:24
--------------------------------	---------

Total ATON hours used	= 821:19 ¹

Historical ATON hours used	= 1000:00

¹plus 250 lighthouse maintenance hours.

2.2.2 WLMR Baltimore, MD



4:1:16

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D5B.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D5-B
- Homeport BALTIMORE, MD
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navais assigned	= 408	(154 Seasonal)
Total Navais serviced	= 408	(154 Seasonal)
Total trips	= 57	
Underway days	= 89	
Deck Space Available	= 68400	
Deck Space Used	= 62362.2	(91.2% utilization)
Avg buoys / trip	= 9.9	
Avg underway days / trip	= 1.6	
Total transit time	= 406:30	
Total service time	= 320:11	
Total idle time (not added)	= 411:48	
Total time		= 726:40

Total short transits	= 384	
Total length of short trips	= 29:18	
Additional prep/deprep time		= 66:42

Avg service time / navaid	= 0:34	
Avg transit time / navaid	= 0:51	
Avg total time / navaid	= 1:25	
Total discrepancies	= 36.9035	
Computed discrepancy hours		= 52:06

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

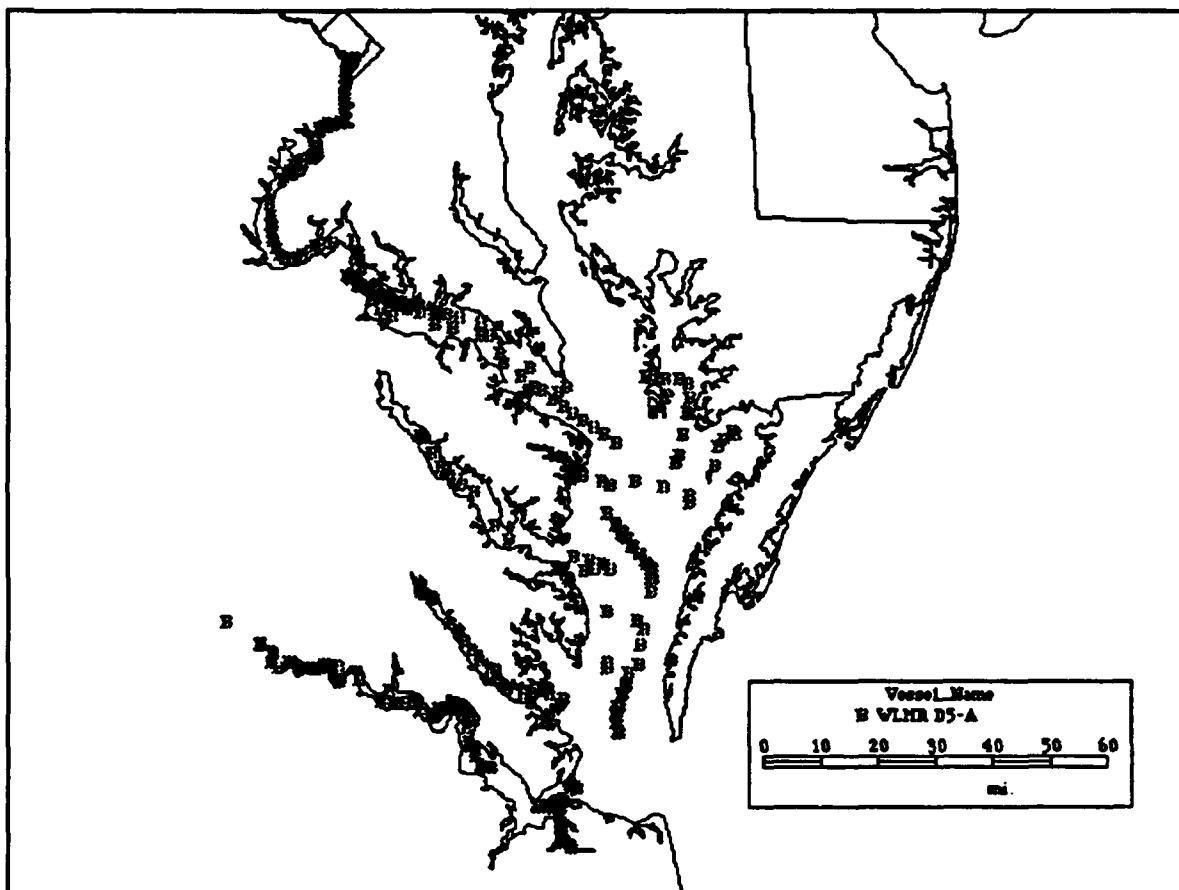
Total weather hours		= 46:57

Same time servicing (subtract)		= 21:51

Total ATON hours used		= 870:33 ¹
		=====
Historical ATON hours used		= 1000:00
		=====

¹plus 250 lighthouse maintenance hours.

2.2.3 WLMR Portsmouth, VA



2:19:58

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D5A.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR WLMR D5-A
- Homeport PORTSMOUTH, VA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Navaids assigned	= 401 (77 Seasonal)
Total Navaids serviced	= 401 (77 Seasonal)
Total trips	= 43
Underway days	= 81
Deck Space Available	= 51600
Deck Space Used	= 43434.1 (84.2% utilization)
Avg buoys / trip	= 11.1
Avg underway days / trip	= 1.9
Total transit time	= 658:26
Total service time	= 278:03
Total idle time (not added)	= 530:04
Total time	= 936:29

Total short transits	= 291
Total length of short trips	= 25:01
Additional prep/deprep time	= 47:44

Avg service time / navaid	= 0:35
Avg transit time / navaid	= 1:29
Avg total time / navaid	= 2:04
Total discrepancies	= 45.0051
Computed discrepancy hours	= 92:40

Additional Structure Visits	= 0
Additional Structure hours	= 0:00

Total weather hours	= 37:12

Same time servicing (subtract)	= 107:17

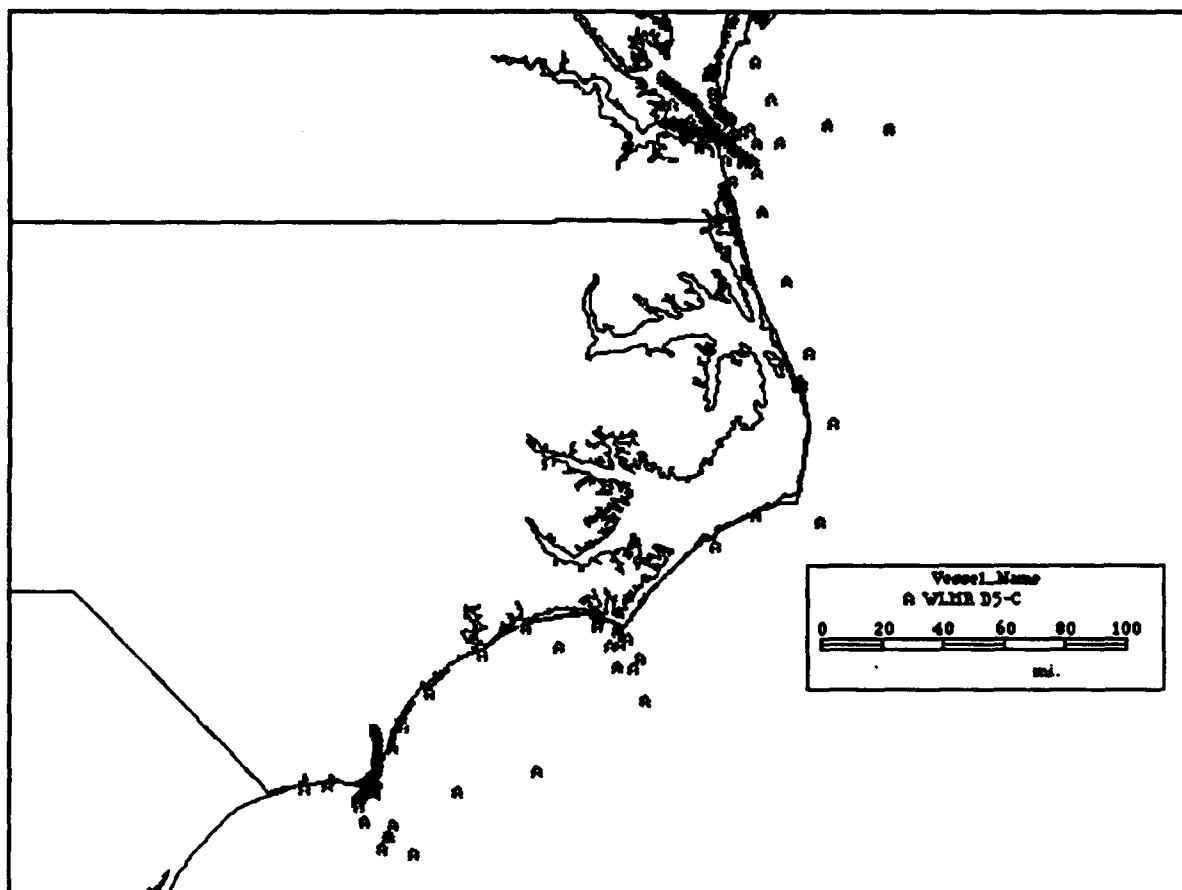
Total ATON hours used = 1006:48^{1,2}

Historical ATON hours used = 1000:00

¹plus 250 lighthouse maintenance hours.

²Difference of six hours from Volume I's Table 6-1 is attributable to the use of different versions of the District 5 buoy tender network. The difference is not significant and does not affect fleet size and mix results.

2.2.4 WLMR Atlantic Beach, NC



7:4:55

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D5C.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D5-C
- Homeport ATLANTIC BEACH, NC
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

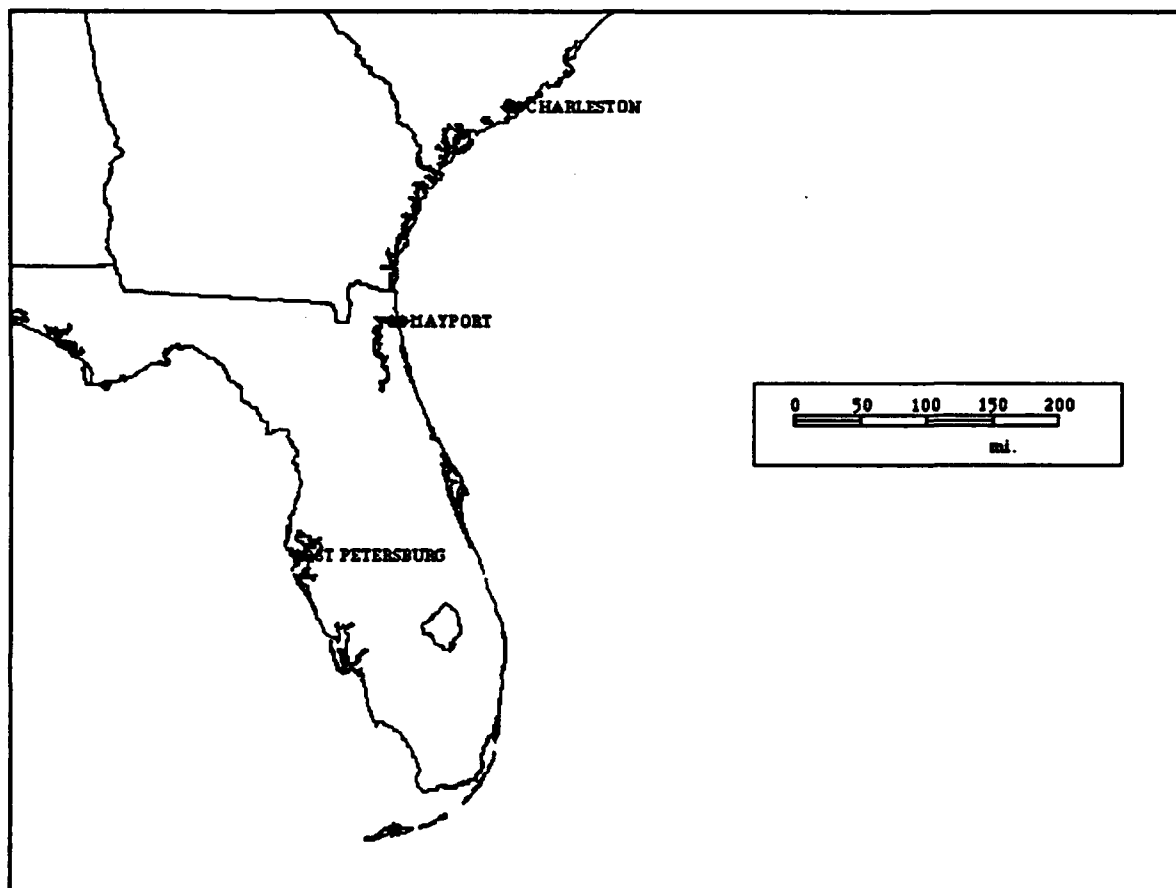
Summary Statistics

Total Nav aids assigned	= 194	(0 Seasonal)
Total Nav aids serviced	= 194	(0 Seasonal)
Total trips	= 16	
Underway days	= 57	
Deck Space Available	= 19200	
Deck Space Used	= 7356.75	(38.3% utilization)
Avg buoys / trip	= 12.1	
Avg underway days / trip	= 3.6	
Total transit time	= 497:18	
Total service time	= 199:29	
Total idle time (not added)	= 441:45	
Total time	= 696:48	
Total short transits	= 134	
Total length of short trips	= 15:44	
Additional prep/deprep time	= 51:16	
Avg service time / nav aid	= 1:02	
Avg transit time / nav aid	= 2:50	
Avg total time / nav aid	= 3:51	
Total discrepancies	= 51.9708	
Computed discrepancy hours	= 200:24	
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	
Total weather hours	= 101:36	
Same time servicing (subtract)	= 37:45	
Total ATON hours used	= 1012:18 ^{1,2}	
	=====	
Historical ATON hours used	= 1000:00	
	=====	

¹plus 250 lighthouse maintenance hours.

²Difference of four hours from Volume I's Table 6-1 is attributable to the use of different versions of the District 5 buoy tender network. The difference is not significant and does not affect fleet size and mix results.

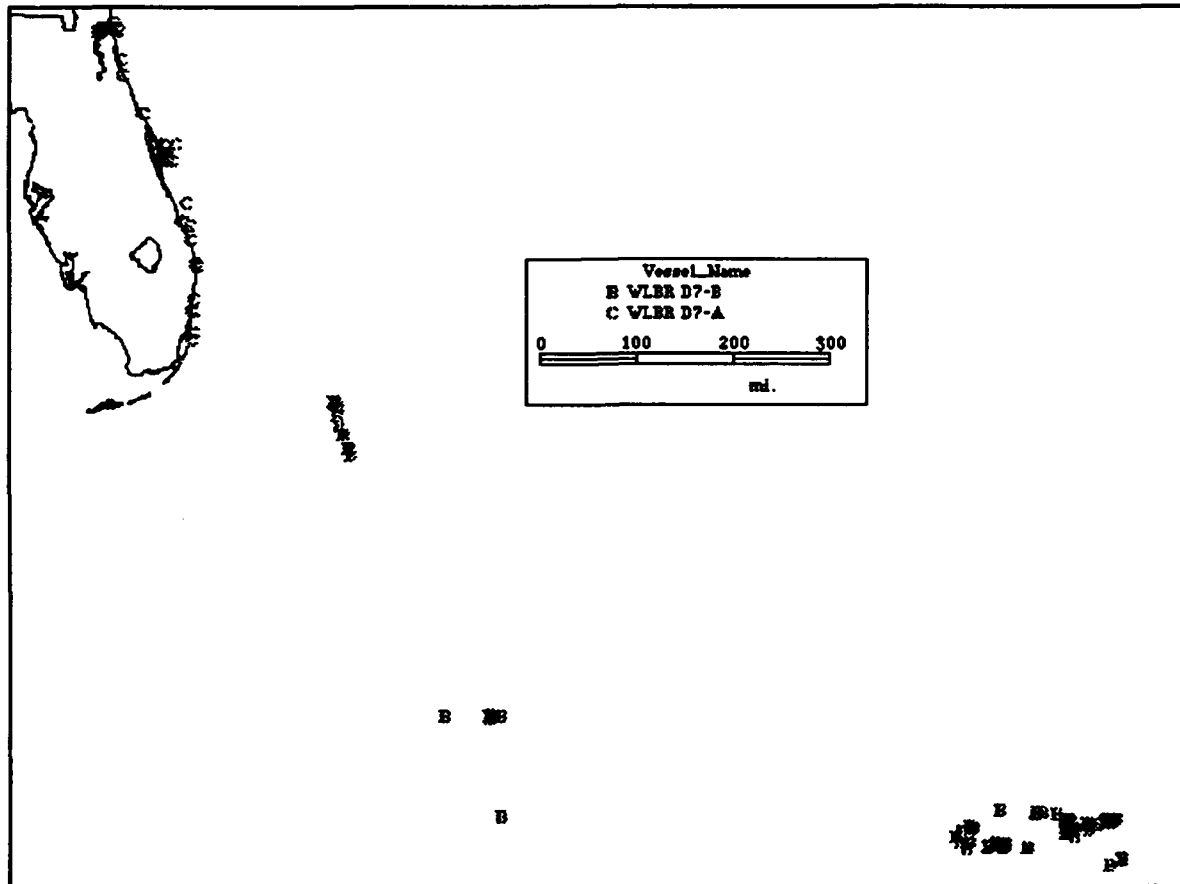
2.3 DISTRICT 7



<u>Home Port</u>	<u>Type</u>	<u>NavAids</u>	<u>Hours</u>
MAYPORT	----		
MIAMI	WLBR	407	1258
CHARLESTON	WLMR	254	1292
ST PETERSBURG	WLMR	213	916
Totals		874	3466
Avg		291	1155

2.3.1 WLBR Miami, FL

Note: The WLBR Miami was partitioned into WLBR D7-A and WLBR D7-B to account for different concepts and areas of operations.



8:6:12
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D7a.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D7-A
- Homeport Miami Main Ch LB 16
- 12 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 106 (0 Seasonal)
Total Nav aids serviced	= 106 (0 Seasonal)
Total trips	= 8
Underway days	= 29
Deck Space Available	= 20000
Deck Space Used	= 6306 (31.5% utilization)
Avg buoys / trip	= 13.3
Avg underway days / trip	= 3.6
Total transit time	= 316:52
Total service time	= 100:11
Total idle time	= 46:30
Total time	= 463:33

Total short transits	= 80
Total length of short trips	= 7:17
Additional prep/deprep time	= 32:43

Avg service time / nav aid	= 0:57
Avg transit time / nav aid	= 3:18
Avg total time / nav aid	= 4:41
Total discrepancies	= 32.0749
Computed discrepancy hours	= 150:10

Additional Structure Visits	= 0
Additional Structure hours	= 0:00

Total weather hours	= 6:13

Same time servicing (subtract)	= 5:10

Total ATON hours used = 647:29
=====

Historical ATON hours used = 1260:00
=====

8:10:56

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D7b.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D7-B
- Homeport Miami Main Ch LB 16
- 12 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	= 300	(0 Seasonal)
Total Nav aids serviced	= 300	(0 Seasonal)
Total trips	= 2	
Underway days	= 38	
Deck Space Available	= 20000	
Deck Space Used	= 5313.75	(26.6% utilization)
Avg buoys / trip	= 150.0	
Avg underway days / trip	= 1.0	
Total transit time	= 224:35	
Total service time	= 213:32	
Total idle time (not added)	= 338:37	
Total time		= 438:06

Total short transits	= 267	
Total length of short trips	= 13:24	
Additional prep/deprep time		= 120:06

Avg service time / nav aid	= 0:43	
Avg transit time / nav aid	= 1:09	
Avg total time / nav aid	= 1:52	
Total discrepancies	= 23.0605	
Computed discrepancy hours		= 42:54

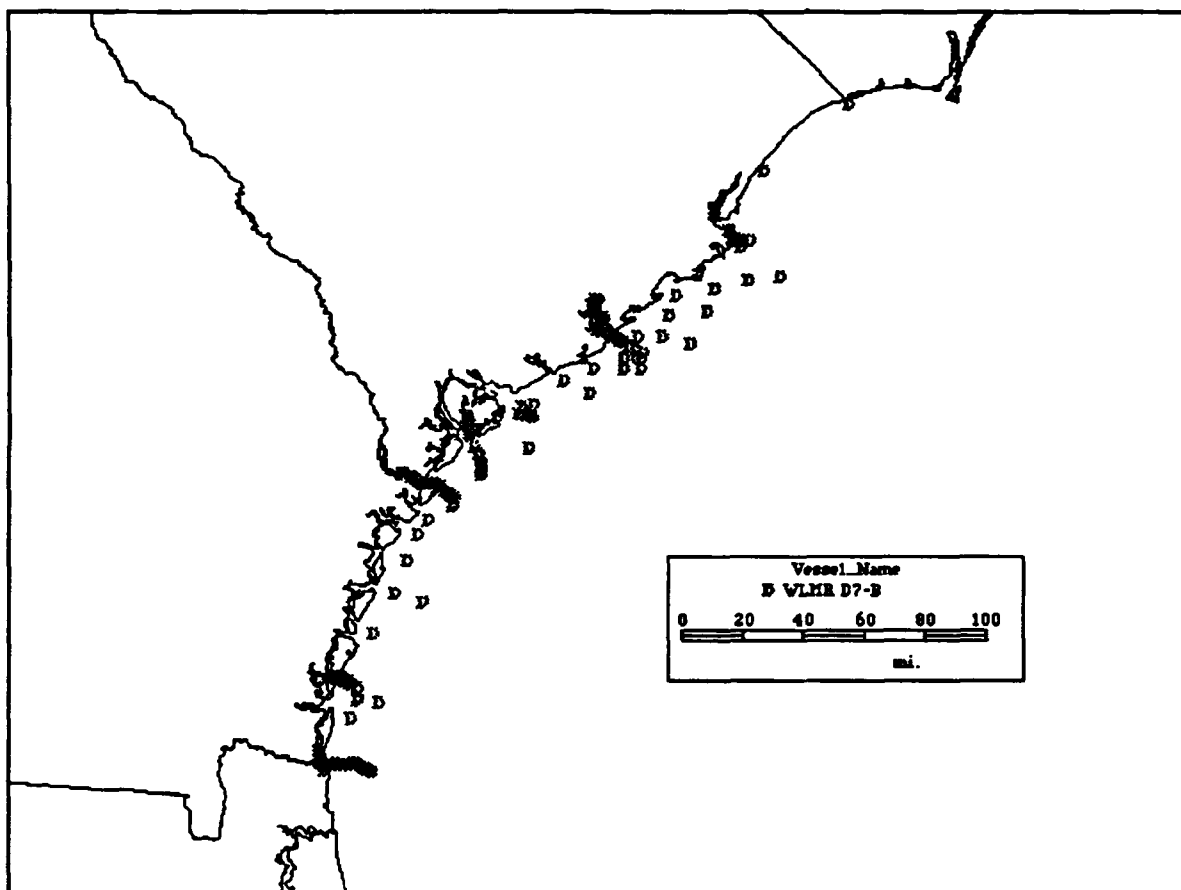
Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 57:08

Same time servicing (subtract)		= 49:36

Total ATON hours used		= 609:39
		=====
Historical ATON hours used		= 1260:00
		=====

2.3.2 WLMR Charleston, SC



7:39:46
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D7B.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D7-B
- Homeport CHARLESTON, SC
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 254	(0 Seasonal)
Total Navaids serviced	= 254	(0 Seasonal)
Total trips	= 16	
Underway days	= 51	
Deck Space Available	= 19200	
Deck Space Used	= 12538.5	(65.3% utilization)
Avg buoys / trip	= 15.9	
Avg underway days / trip	= 3.2	
Total transit time	= 330:22	
Total service time	= 221:54	
Total idle time	= 349:10	
Total time		= 901:26

Total short transits	= 200	
Total length of short trips	= 16:36	
Additional prep/deprep time		= 83:24

Avg service time / navaid	= 0:52	
Avg transit time / navaid	= 1:38	
Avg total time / navaid	= 3:53	
Total discrepancies	= 36.1393	
Computed discrepancy hours		= 140:07

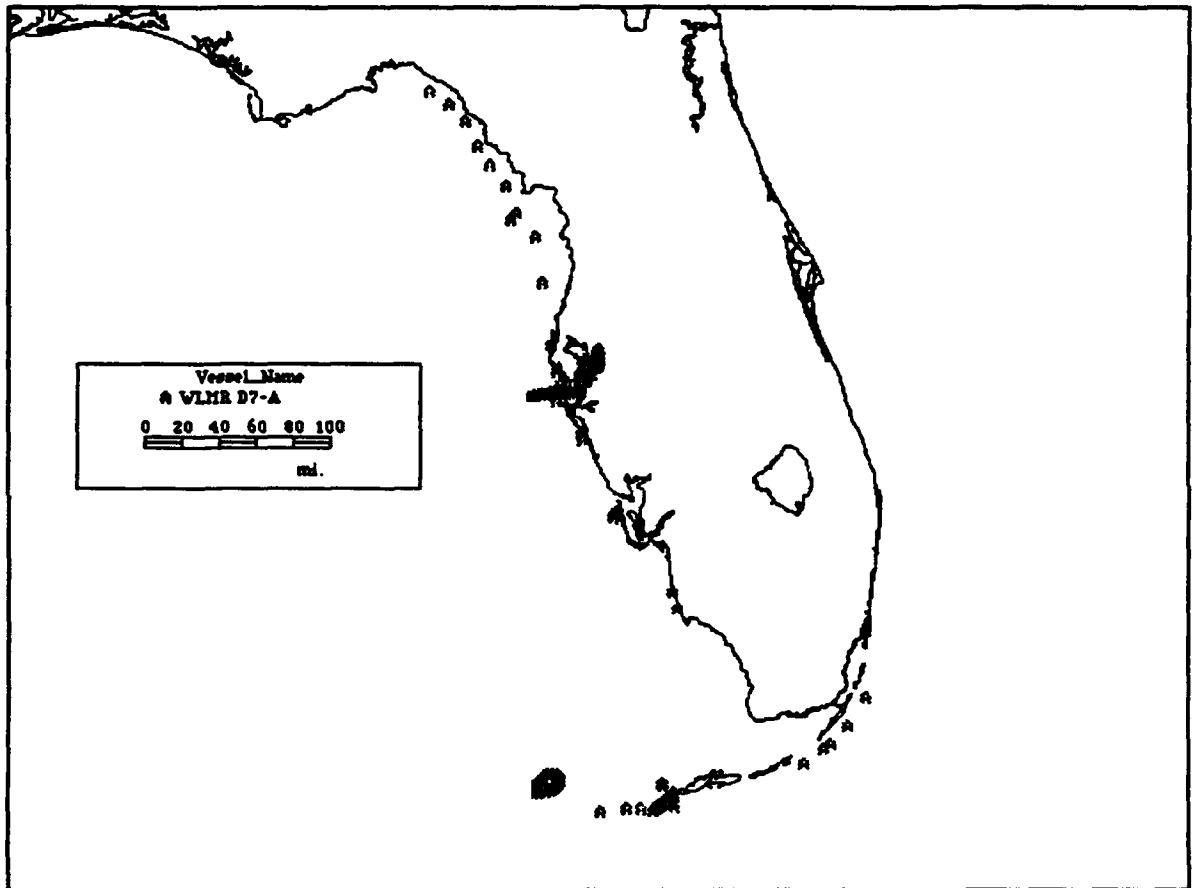
Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 186:48

Same time servicing (subtract)		= 19:18

Total ATON hours used		= 1292:28
=====		
Historical ATON hours used		= 1275:00
=====		

2.3.3 WLMR St. Petersburg, FL



7:24:31
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D7A.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR WLMR D7-A
- Homeport ST PETERSBURG, FL
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 213	(0 Seasonal)
Total Nav aids serviced	= 213	(0 Seasonal)
Total trips	= 13	
Underway days	= 43	
Deck Space Available	= 15600	
Deck Space Used	= 10707.2	(68.6% utilization)
Avg buoys / trip	= 16.4	
Avg underway days / trip	= 3.3	
Total transit time	= 322:46	
Total service time	= 129:25	
Total idle time	= 244:50	
Total time		= 697:01

Total short transits	= 170	
Total length of short trips	= 17:47	
Additional prep/deprep time		= 67:13

Avg service time / nav aid	= 0:36	
Avg transit time / nav aid	= 1:50	
Avg total time / nav aid	= 3:35	
Total discrepancies	= 40	
Computed discrepancy hours		= 143:31

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

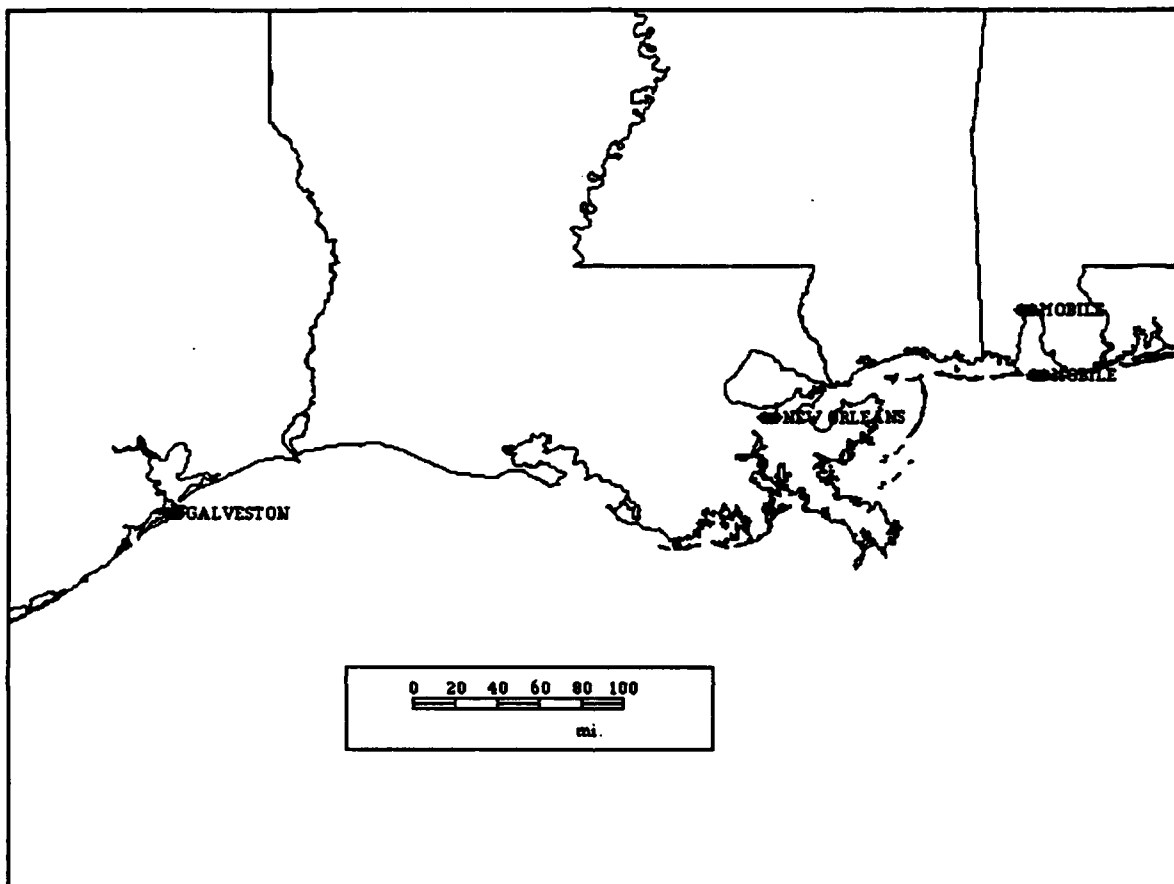
Total weather hours		= 8:00

Same time servicing (subtract)	= 0:00	

Total ATON hours used = 915:45

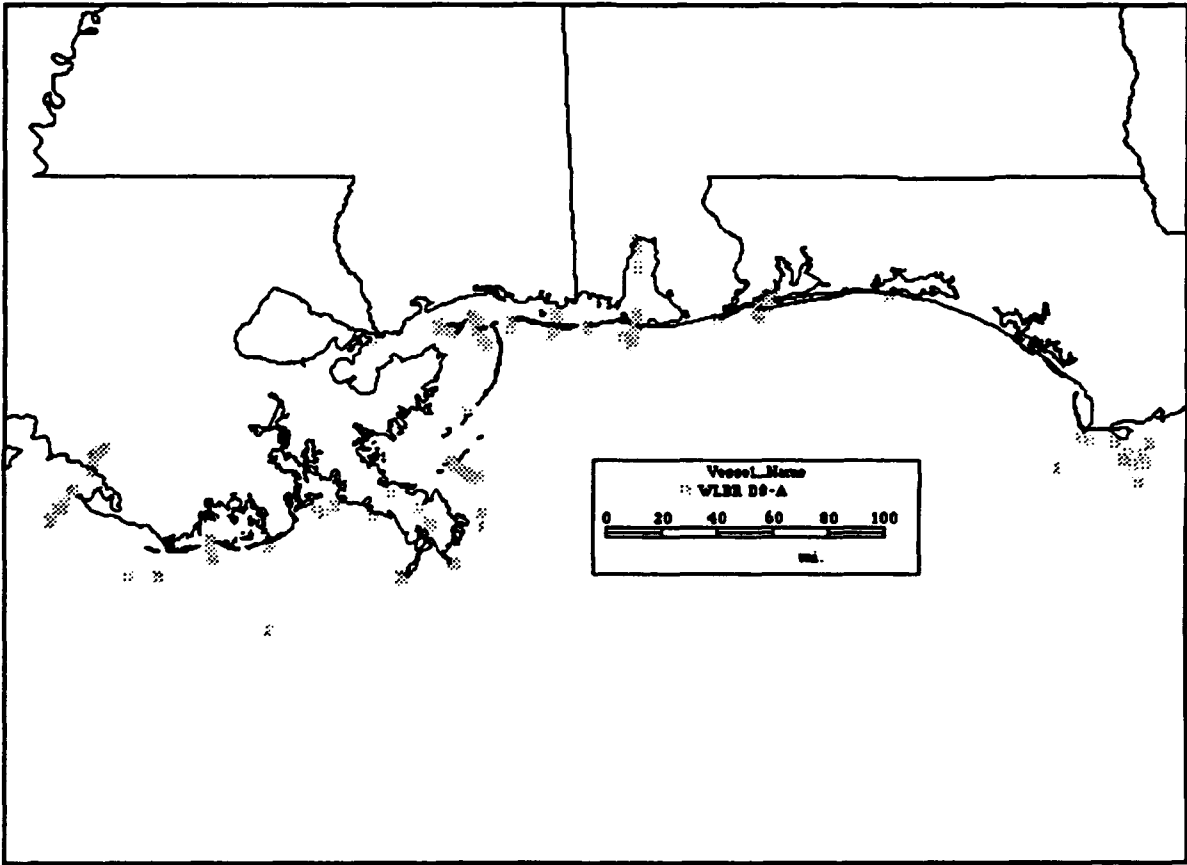
Historical ATON hours used = 1275:00

2.4 DISTRICT 8



<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>Hours</u>
GALVESTON	WLMR	196	1127
MOBILE	WLBR	243	1085
NEW ORLEANS	BUSLR	49	
MOBILE	WLMR	211	1216
Totals		699	3428
Avg		175	1143

2.4.1 WLBR Mobile, AL



9:0:27

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D8A.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D8-A
- Homeport MOBILE, AL
- 12 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 10 days)

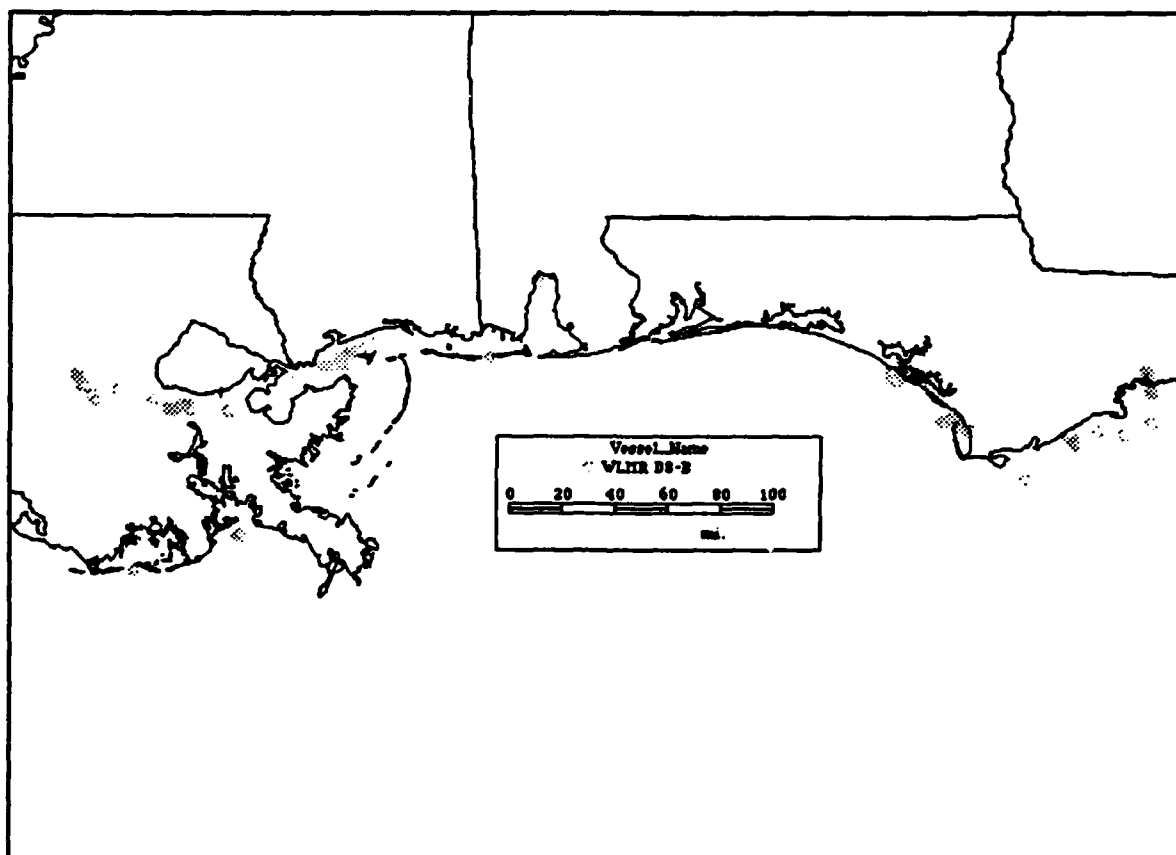
Summary Statistics

Total Nav aids assigned	= 243	(0 Seasonal)
Total Nav aids serviced	= 243	(0 Seasonal)
Total trips	= 12	
Underway days	= 41	
Deck Space Available	= 30000	
Deck Space Used	= 6052.88	(20.2% utilization)
Avg buoys / trip	= 20.3	
Avg underway days / trip	= 3.4	
Total transit time	= 278:01	
Total service time	= 178:31	
Total idle time	= 192:18	
Total time	= 648:50	-----
Total short transits	= 186	
Total length of short trips	= 12:52	
Additional prep/deprep time	= 80:08	-----
Avg service time / nav aid	= 0:44	
Avg transit time / nav aid	= 1:28	
Avg total time / nav aid	= 3:00	
Total discrepancies	= 93.1462	
Computed discrepancy hours	= 279:26	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 80:09	-----
Same time servicing (subtract)	= 3:43	-----

Total ATON hours used = 1084:50

Historical ATON hours used = 1260:00

2.4.2 WLMR Mobile, AL



8:39:2

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D88.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLMR WLMR D8-B
- Homeport MOBILE, AL
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

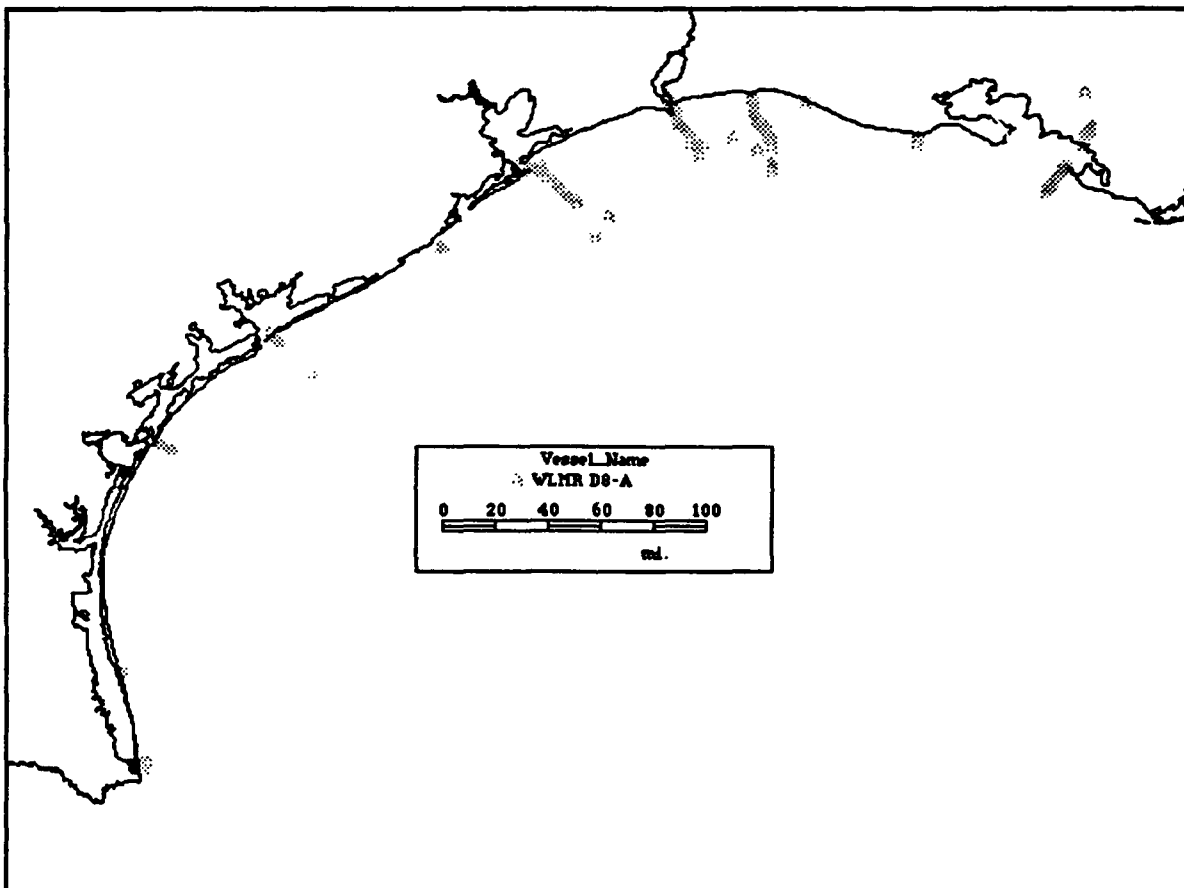
Summary Statistics

Total Navaids assigned	= 211	(3 Seasonal)
Total Navaids serviced	= 211	(3 Seasonal)
Total trips	= 14	
Underway days	= 46	
Deck Space Available	= 16800	
Deck Space Used	= 4287.85	(25.5% utilization)
Avg buoys / trip	= 15.3	
Avg underway days / trip	= 3.3	
Total transit time	= 470:57	
Total service time	= 119:53	
Total idle time	= 297:45	
Total time	= 888:36	-----
Total short transits	= 173	
Total length of short trips	= 11:42	
Additional prep/deprep time	= 74:48	-----
Avg service time / navaid	= 0:34	
Avg transit time / navaid	= 2:33	
Avg total time / navaid	= 4:30	
Total discrepancies	= 39.3146	
Computed discrepancy hours	= 176:59	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 78:32	-----
Same time servicing (subtract)	= 2:34	-----

Total ATON hours used = 1216:21

Historical ATON hours used = 1275:00

2.4.3 WLMR Galveston, TX



8:24:46

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-D8A.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D8-A
- Homeport GALVESTON, TX
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 196 (0 Seasonal)
Total Nav aids serviced	= 196 (0 Seasonal)
Total trips	= 13
Underway days	= 44
Deck Space Available	= 15600
Deck Space Used	= 6482.24 (41.6% utilization)
Avg buoys / trip	= 15.1
Avg underway days / trip	= 3.4
Total transit time	= 348:26
Total service time	= 160:04
Total idle time	= 237:08
Total time	= 745:39

Total short transits	= 157
Total length of short trips	= 12:34
Additional prep/deprep time	= 65:56

Avg service time / nav aid	= 0:49
Avg transit time / nav aid	= 2:07
Avg total time / nav aid	= 4:08
Total discrepancies	= 33.7754
Computed discrepancy hours	= 139:51

Additional Structure Visits	= 0
Additional Structure hours	= 0:00

Total weather hours	= 177:34

Same time servicing (subtract)	= 2:02

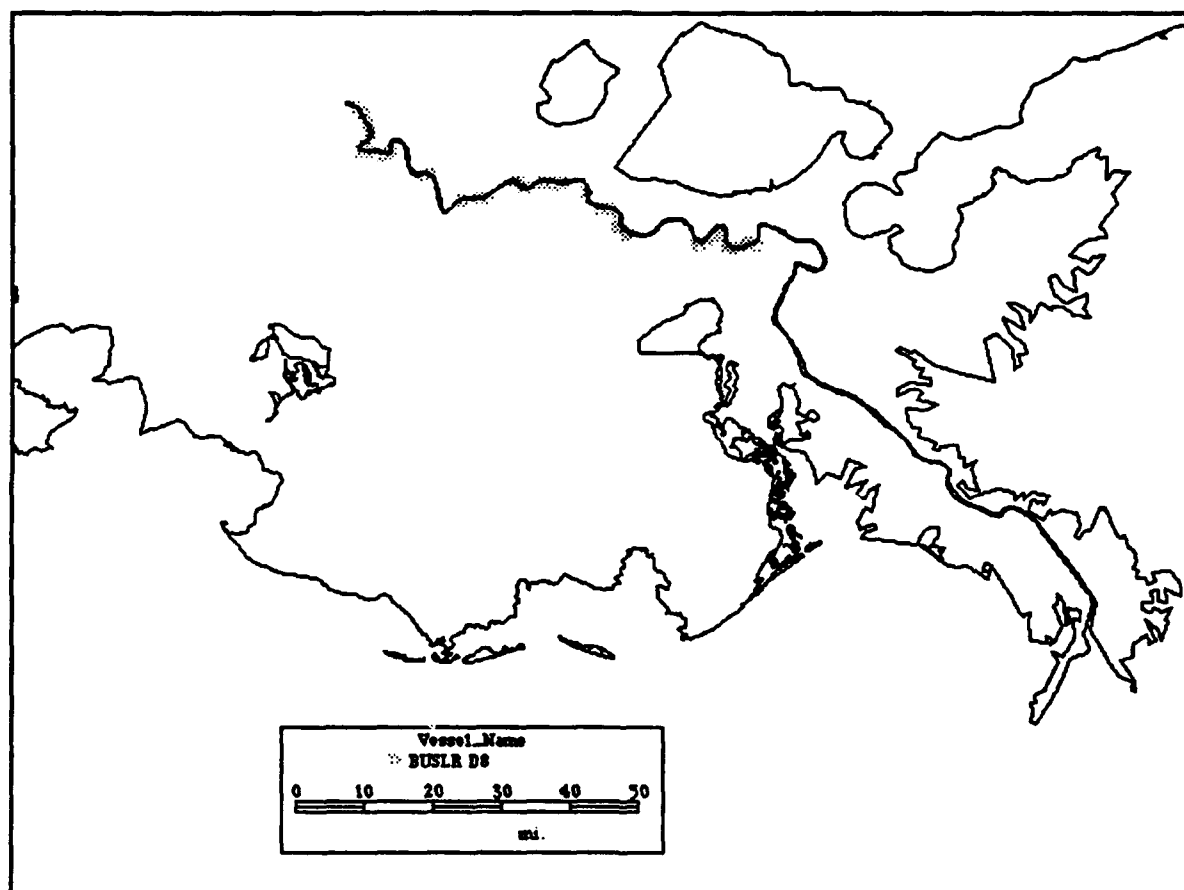
Total ATON hours used = 1126:58

=====

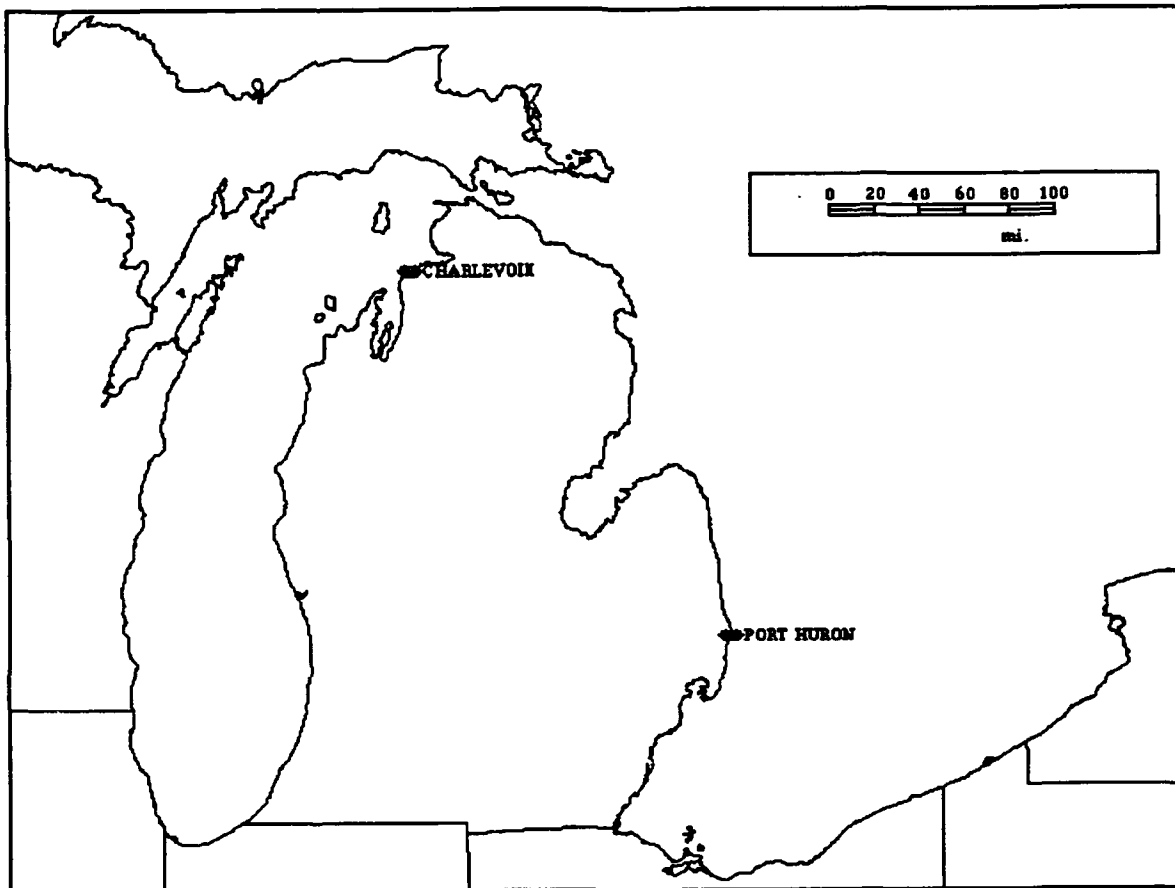
Historical ATON hours used = 1275:00

=====

2.4.4 BUSLR New Orleans, LA



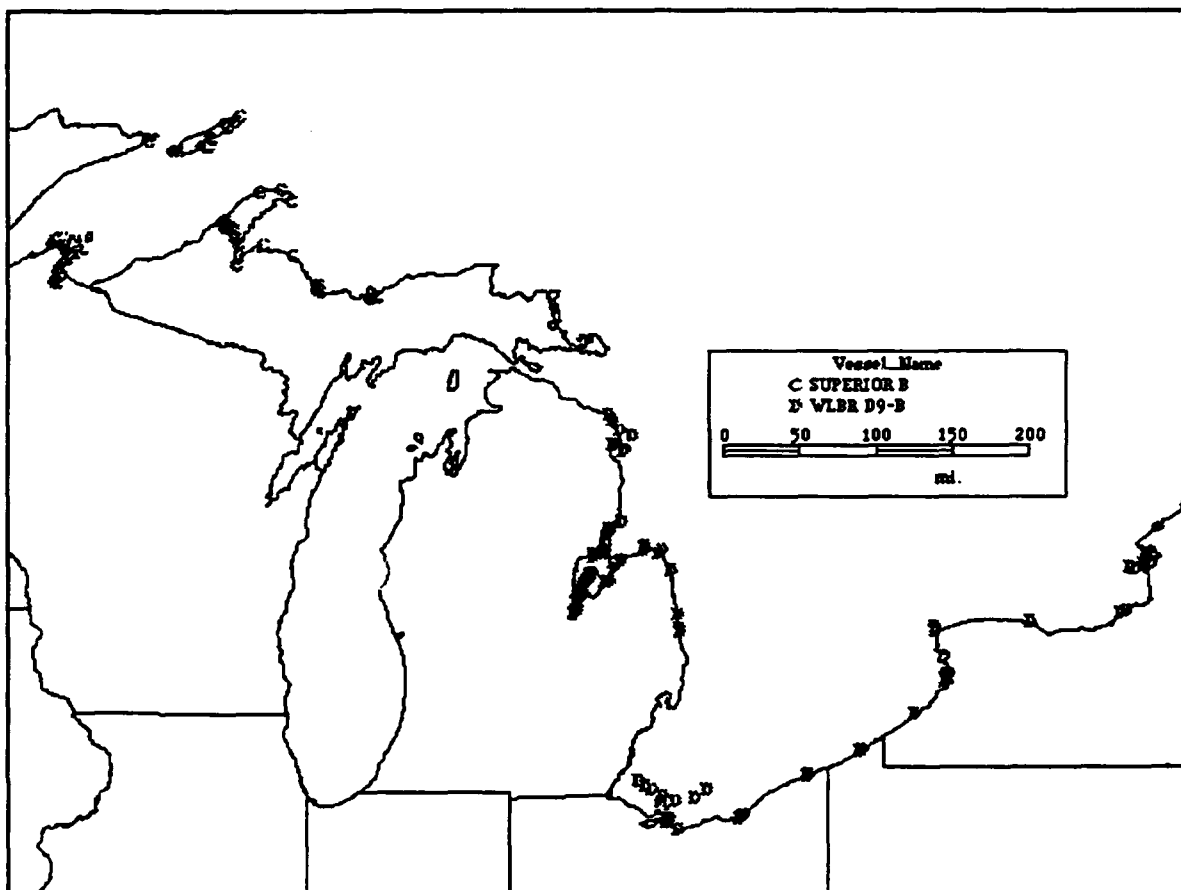
2.5 DISTRICT 9



Home Port	Type	Navais	Hours
CHARLEVOIX	WLBR	391	1097
PORT HURON	WLBR	343	959
DULUTH	----		
Totals		734	2056
Avg		367	1028

2.5.1 WLBR Port Huron, MI

Note: The WLBR Port Huron was partitioned into WLBR D9-B and WLBR SUPERIOR B to account for different areas of operations.



9:23:32
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D9B.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D9-B
- Homeport PORT HURON, MI
- 12 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 15000 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 249	(142 Seasonal)
Total Navaids serviced	= 249	(142 Seasonal)
Total trips	= 5	
Underway days	= 45	
Deck Space Available	= 75000	
Deck Space Used	= 29078.1	(38.8% utilization)
Avg buoys / trip	= 78.2	
Avg underway days / trip	= 9.0	
Total transit time	= 252:02	
Total service time	= 421:57	
Total idle time (not added)	= 228:00	
Total time	= 673:58	-----
Total short transits	= 299	
Total length of short trips	= 11:30	
Additional prep/deprep time	= 63:15	-----
Avg service time / navaid	= 1:05	
Avg transit time / navaid	= 0:48	
Avg total time / navaid	= 1:53	
Total discrepancies	= 6.00001	
Computed discrepancy hours	= 11:19	-----
Additional Structure Visits	= 2.2	
Additional Structure hours	= 14:45	-----
Total weather hours	= 17:56	-----
Same time servicing (subtract)	= 167:08	-----
Total ATON hours used	= 614:05	=====
Historical ATON hours used	= 1260:00	=====

9:42:41

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBRD9D.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR SUPERIOR B
- Homeport PORT HURON, MI
- 12 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 15000 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	=	94	(43 Seasonal)
Total Nav aids serviced	=	94	(43 Seasonal)
Total trips	=	2	
Underway days	=	13	
Deck Space Available	=	30000	
Deck Space Used	=	10937.4	(36.5% utilization)
Avg buoys / trip	=	68.5	
Avg underway days / trip	=	9.0	
Total transit time	=	197:57	
Total service time	=	116:36	
Total idle time (not added)	=	63:13	
Total time			= 314:33

Total short transits	=	90	
Total length of short trips	=	5:20	
Additional prep/deprep time	=	17:10	

Avg service time / nav aid	=	0:51	
Avg transit time / nav aid	=	1:34	
Avg total time / nav aid	=	2:25	
Total discrepancies	=	0.984615	
Computed discrepancy hours	=	2:23	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	52:13	

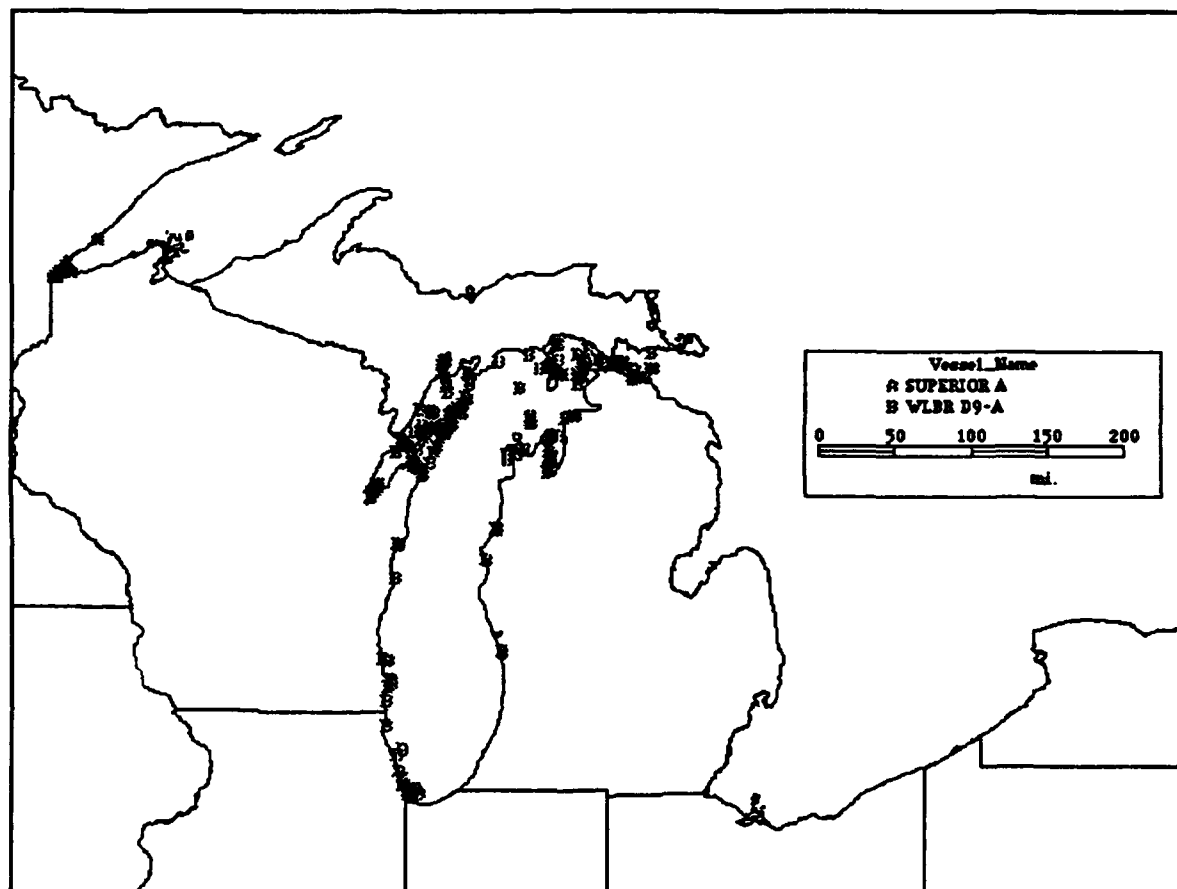
Same time servicing (subtract)	=	41:59	

Total ATON hours used	=	344:21	

Historical ATON hours used	=	1260:00	

2.5.2 WLBR Charlevoix, MI

Note: The WLBR Charlevoix was partitioned into WLBR D9-A and WLBR SUPERIOR A to account for different areas of operations.



9:34:52

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-D9A.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D9-A
- Homeport CHARLEVOIX, MI
- 12 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 15000 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 243	(120 Seasonal)
Total Nav aids serviced	= 243	(120 Seasonal)
Total trips	= 5	
Underway days	= 37	
Deck Space Available	= 75000	
Deck Space Used	= 40311	(53.7% utilization)
Avg buoys / trip	= 72.6	
Avg underway days / trip	= 7.4	
Total transit time	= 207:10	
Total service time	= 357:39	
Total idle time (not added)	= 211:08	
Total time		= 564:49

Total short transits	= 218	
Total length of short trips	= 17:52	
Additional prep/deprep time		= 36:38

Avg service time / nav aid	= 0:59	
Avg transit time / nav aid	= 0:40	
Avg total time / nav aid	= 1:39	
Total discrepancies	= 34	
Computed discrepancy hours		= 56:20

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 30:00

Same time servicing (subtract)		= 17:53

Total ATON hours used		= 669:54

Historical ATON hours used		= 1260:00

9:45:29

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBRD9E.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR SUPERIOR A
- Homeport CHARLEVOIX, MI
- 12 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 22:00
- 15000 sq.ft. deck space available
- Prep/Deprep time 0:15
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	= 148	(84 Seasonal)
Total Navaids serviced	= 148	(84 Seasonal)
Total trips	= 3	
Underway days	= 27	
Deck Space Available	= 45000	
Deck Space Used	= 7961.4	(17.7% utilization)
Avg buoys / trip	= 77.3	
Avg underway days / trip	= 9.0	
Total transit time	= 235:42	
Total service time	= 170:48	
Total idle time (not added)	= 110:34	
Total time	=	406:30

Total short transits	= 227	
Total length of short trips	= 6:33	
Additional prep/deprep time	=	50:12

Avg service time / navaid	= 0:44	
Avg transit time / navaid	= 1:14	
Avg total time / navaid	= 1:58	
Total discrepancies	= 3.01539	
Computed discrepancy hours	=	5:56

Additional Structure Visits	= 0	
Additional Structure hours	=	0:00

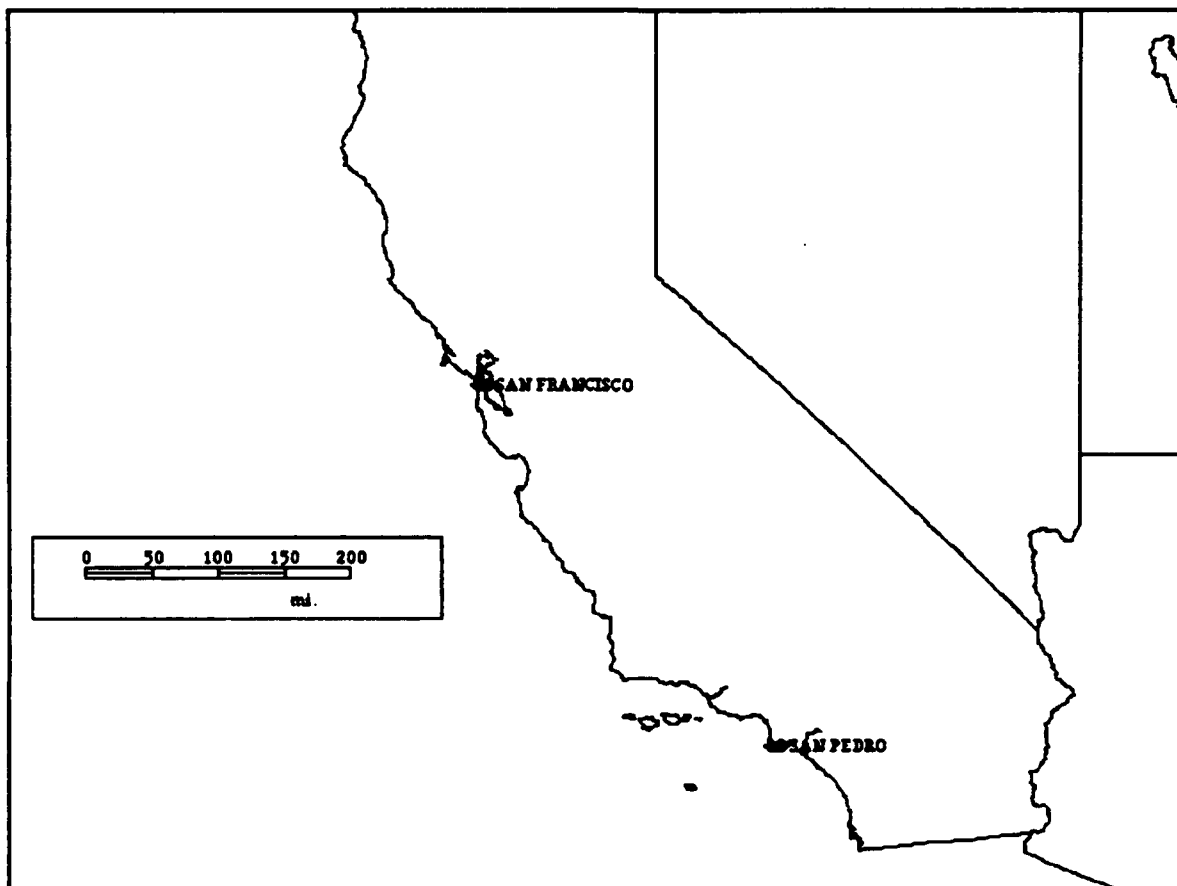
Total weather hours	=	22:47

Same time servicing (subtract)	=	61:29

Total ATON hours used	=	423:55 ¹
		=====
Historical ATON hours used	=	1260:00
		=====

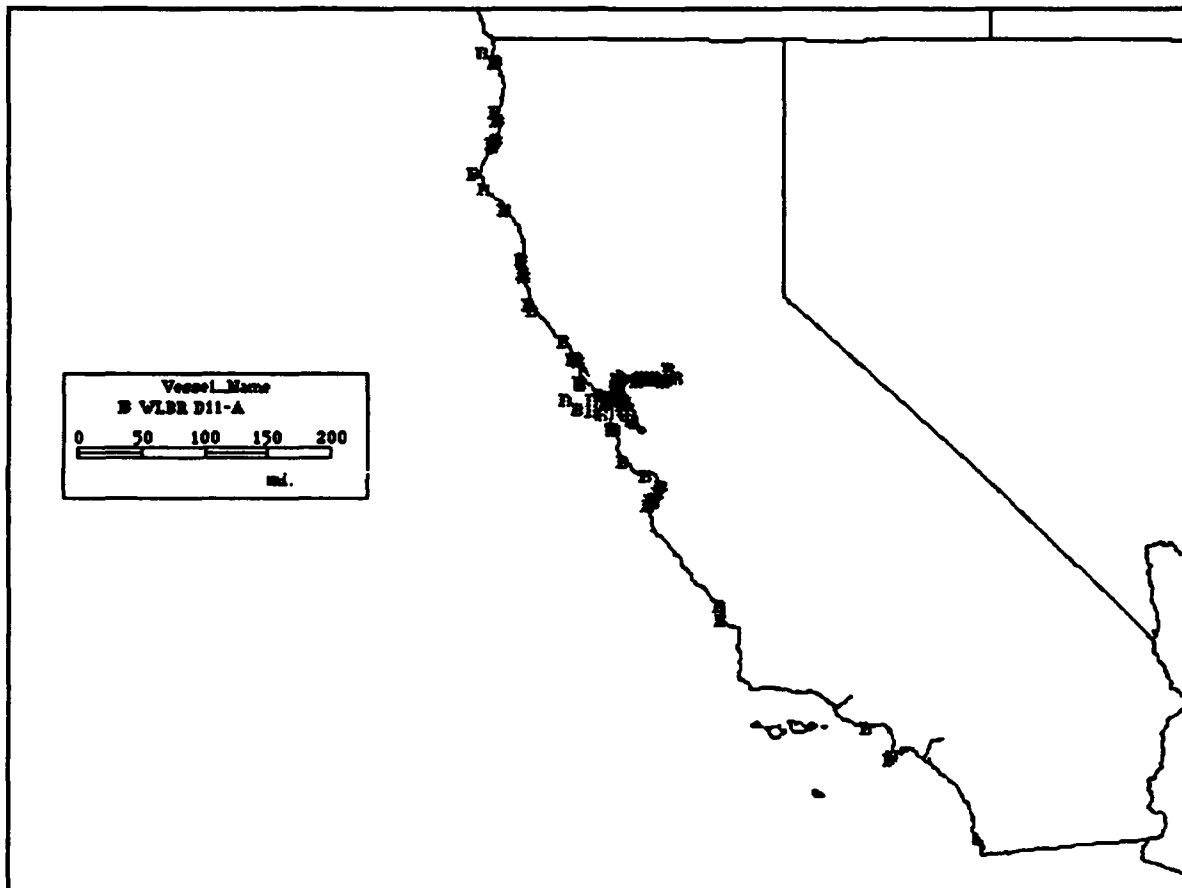
¹Difference of three hours from Volume 1's Table 6-1 is attributable to the use of different versions of the District 9 buoy tender network. The difference is not significant and does not affect fleet size and mix results.

2.6 DISTRICT 11



<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>Hours</u>
SAN FRANCISCO	WLBR	175	1137
SAN PEDRO	WLBR	130	1057
Totals		305	2194
Avg		152	1097

2.6.1 WLBR San Francisco, CA



9:57:17

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBRD11A.REP

VESSEL SUMMARY REPORT

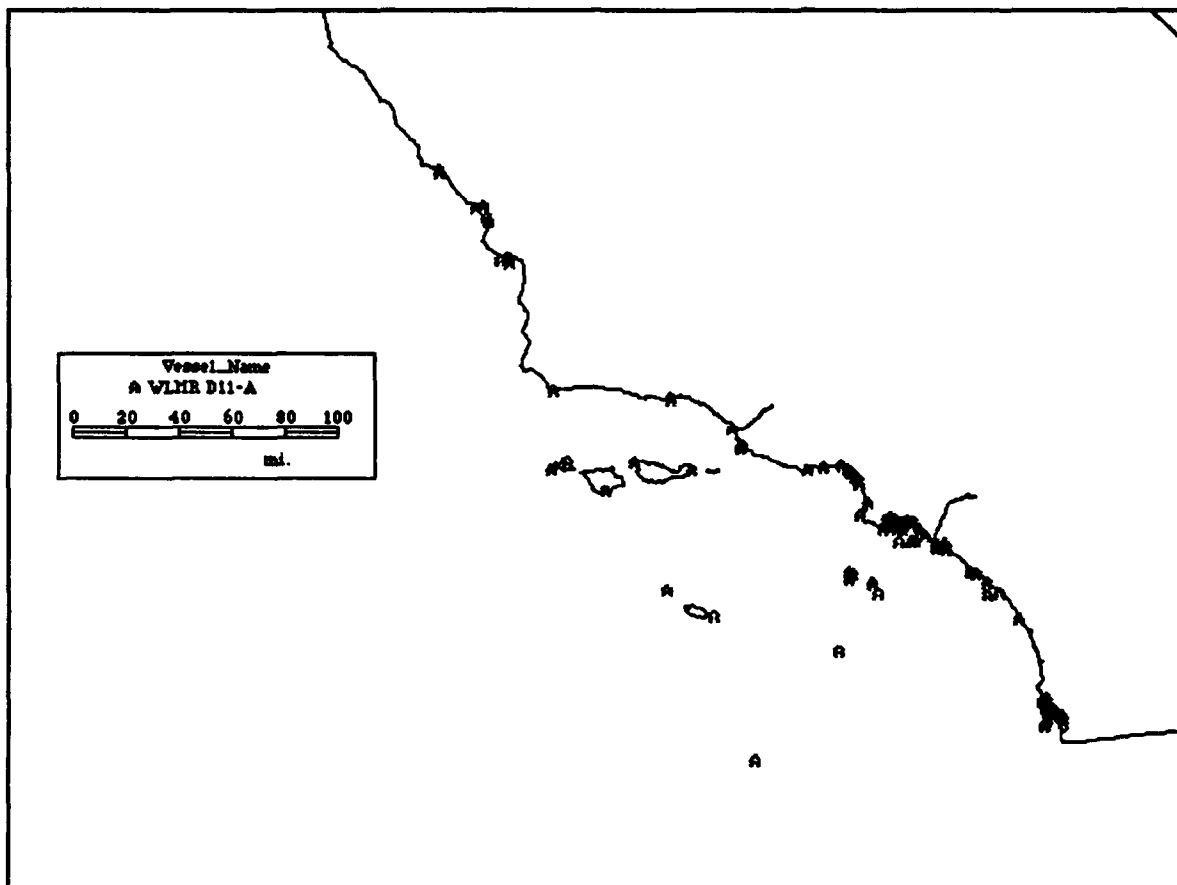
Platform Characteristics

- WLBR WLBR D11-A
- Homeport SAN FRANCISCO, CA
- 13 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 175	(0 Seasonal)
Total Nav aids serviced	= 175	(0 Seasonal)
Total trips	= 12	
Underway days	= 37	
Deck Space Available	= 30000	
Deck Space Used	= 5862	(19.5% utilization)
Avg buoys / trip	= 14.6	
Avg underway days / trip	= 3.1	
Total transit time	= 264:55	
Total service time	= 251:48	
Total idle time	= 155:49	
Total time	= 672:32	-----
Total short transits	= 126	
Total length of short trips	= 14:12	
Additional prep/deprep time	= 48:48	-----
Avg service time / nav aid	= 1:26	
Avg transit time / nav aid	= 1:48	
Avg total time / nav aid	= 4:07	
Total discrepancies	= 73.908	
Computed discrepancy hours	= 304:39	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 161:29	-----
Same time servicing (subtract)	= 49:03	-----
Total ATON hours used	= 1138:25	=====
Historical ATON hours used	= 1260:00	=====

2.6.2 WLMR San Pedro, CA



9:53:11
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMRD11A.REP

VESSEL SUMMARY REPORT

=====

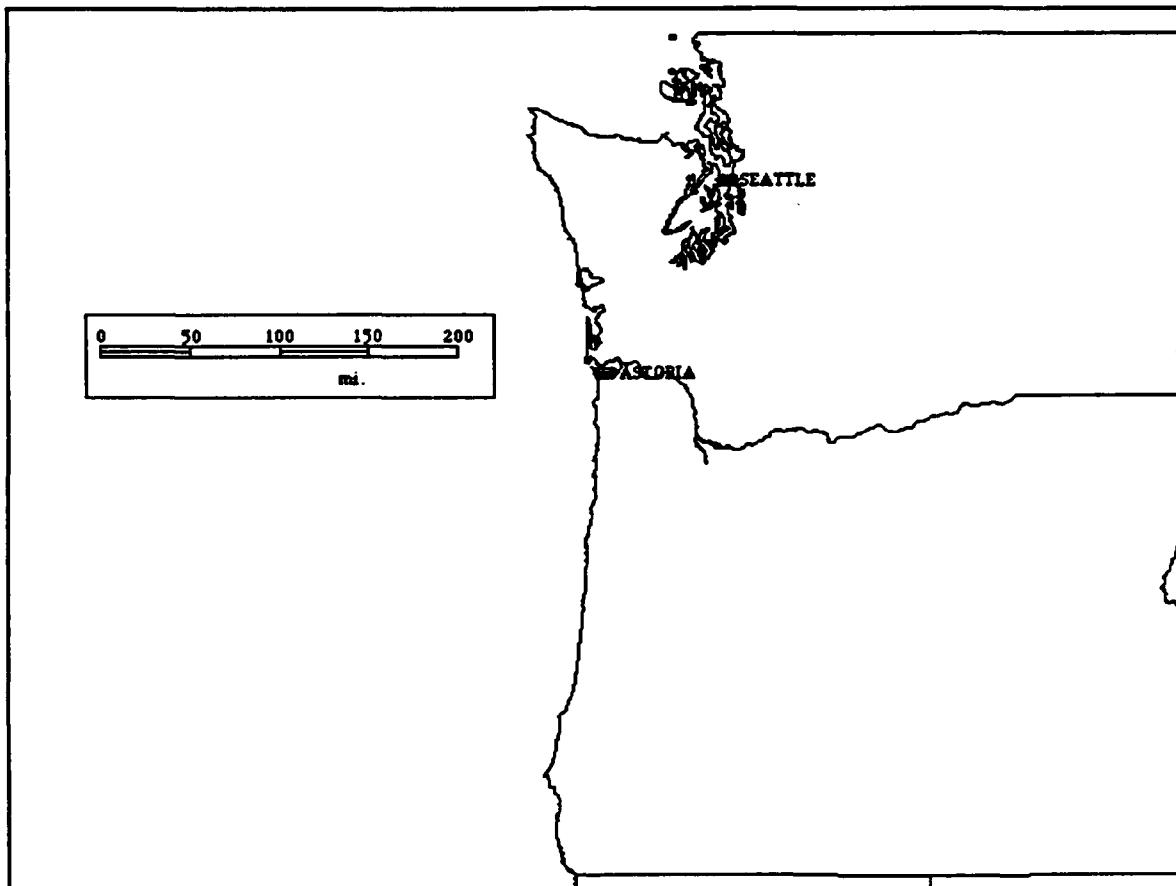
Platform Characteristics

- WLMR WLMR D11-A
- Homeport SAN PEDRO, CA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

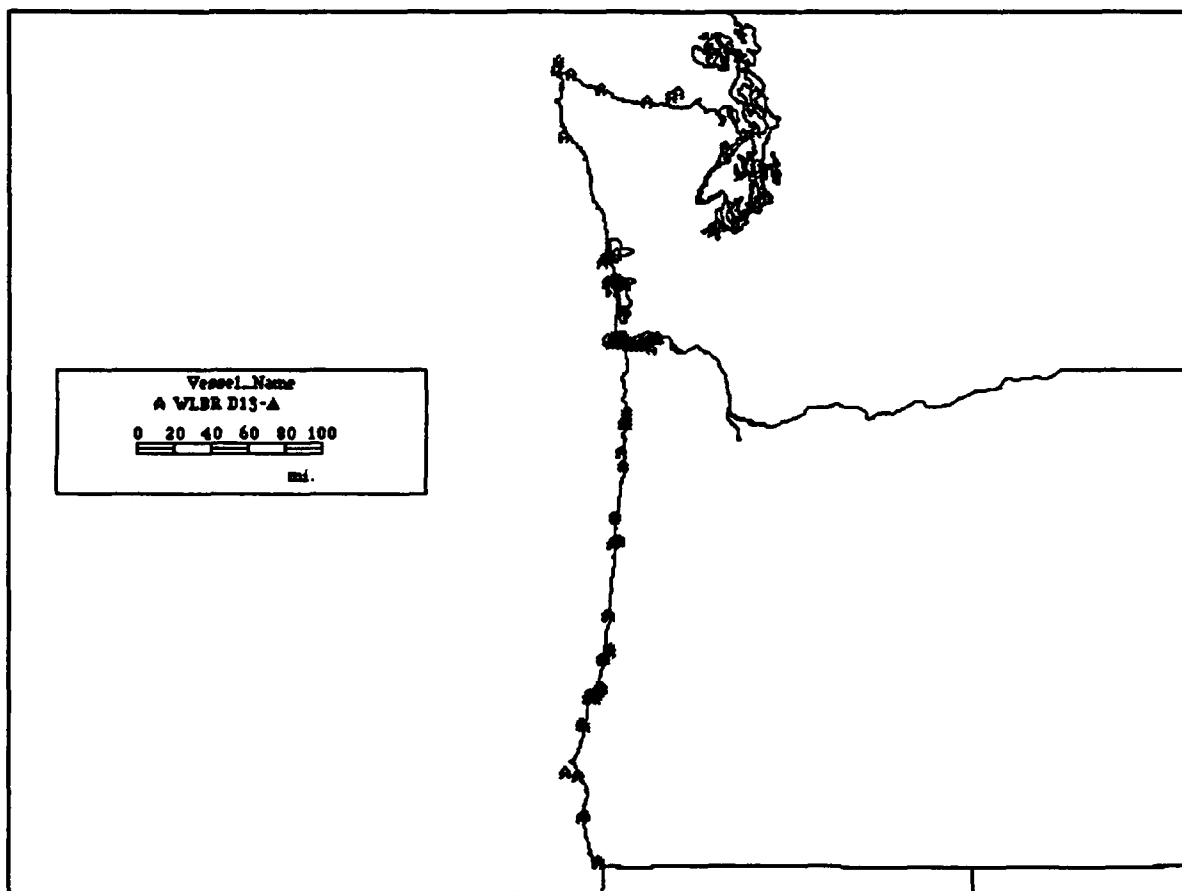
Total Navaids assigned	= 130	(0 Seasonal)
Total Navaids serviced	= 130	(0 Seasonal)
Total trips	= 10	
Underway days	= 33	
Deck Space Available	= 12000	
Deck Space Used	= 4350.15	(36.3% utilization)
Avg buoys / trip	= 13.0	
Avg underway days / trip	= 3.3	
Total transit time	= 199:52	
Total service time	= 175:08	
Total idle time	= 224:30	
Total time	= 599:30	-----
Total short transits	= 92	
Total length of short trips	= 11:27	
Additional prep/deprep time	= 34:33	-----
Avg service time / navaid	= 1:21	
Avg transit time / navaid	= 1:48	
Avg total time / navaid	= 4:53	
Total discrepancies	= 21.1117	
Computed discrepancy hours	= 102:58	-----
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	-----
Total weather hours	= 323:28	-----
Same time servicing (subtract)	= 3:30	-----
Total ATON hours used	= 1056:59	=====
Historical ATON hours used	= 1260:00	=====

2.7 DISTRICT 13



<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>Hours</u>
ASTORIA	WLBR	135	1301
SEATTLE	WLMR	158	1284
	Totals	293	2585
	Avg	196	1293

2.7.1 WLBR Astoria, OR



10:11:16
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBRD13A.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D13-A
- Homeport ASTORIA, OR
- 13 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 5 days)

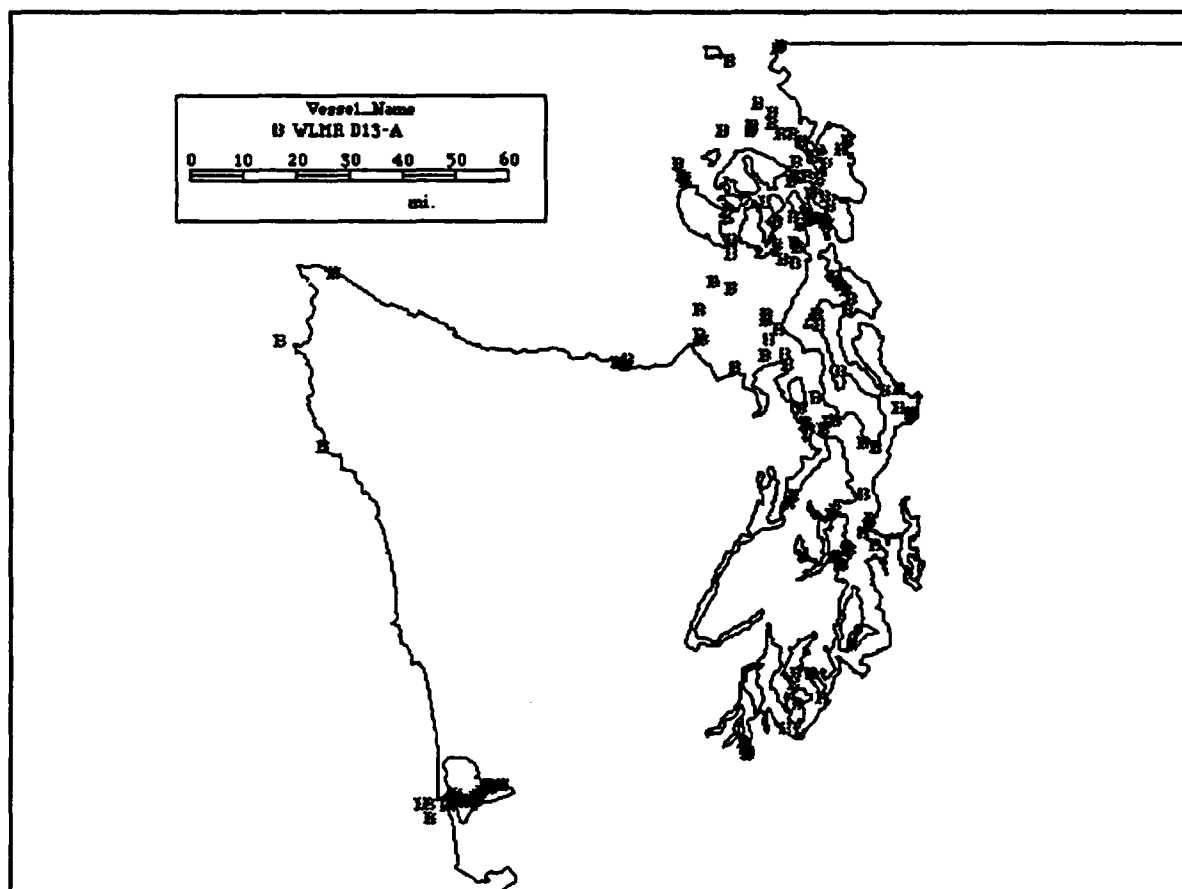
Summary Statistics

Total Nav aids assigned	=	135	(11 Seasonal)
Total Nav aids serviced	=	135	(11 Seasonal)
Total trips	=	12	
Underway days	=	35	
Deck Space Available	=	30000	
Deck Space Used	=	11153.4	(37.2% utilization)
Avg buoys / trip	=	12.2	
Avg underway days / trip	=	2.9	
Total transit time	=	302:23	
Total service time	=	139:48	
Total idle time	=	162:00	
Total time	=	604:12	
Total short transits	=	94	
Total length of short trips	=	10:00	
Additional prep/deprep time	=	37:00	
Avg service time / nav aid	=	0:57	
Avg transit time / nav aid	=	2:19	
Avg total time / nav aid	=	4:24	
Total discrepancies	=	57.0624	
Computed discrepancy hours	=	250:36	
Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	
Total weather hours	=	156:48	
Same time servicing (subtract)	=	13:00	
Total ATON hours used	=	1035:37 ^{1,2}	
Historical ATON hours used	=	1000:00	

¹plus 250 lighthouse maintenance hours.

²Difference of thirteen hours from Volume I's Table 6-1 is attributable to the use of different versions of the District 13 buoy tender network. The difference is not significant and does not affect fleet size and mix results.

2.7.2 WLMR Seattle, WA



10:4:50
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMRD13A.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D13-A
- Homeport SEATTLE, WA
- 10 knot average transit speed
- 72 hour maximum cruise length
- work day is 6:00 to 16:00
- 1200 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 5 days)

Summary Statistics

Total Nav aids assigned	= 158 (1 Seasonal)	
Total Nav aids serviced	= 158 (1 Seasonal)	
Total trips	= 10	
Underway days	= 29	
Deck Space Available	= 12000	
Deck Space Used	= 5757 (48.0% utilization)	
Avg buoys / trip	= 15.9	
Avg underway days / trip	= 2.9	
Total transit time	= 239:55	
Total service time	= 105:58	
Total idle time	= 177:06	
Total time	= 522:59	

Total short transits	= 115	
Total length of short trips	= 19:00	
Additional prep/deprep time	= 38:30	

Avg service time / nav aid	= 0:40	
Avg transit time / nav aid	= 1:45	
Avg total time / nav aid	= 3:32	
Total discrepancies	= 63.9376	
Computed discrepancy hours	= 225:47	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 254:07	

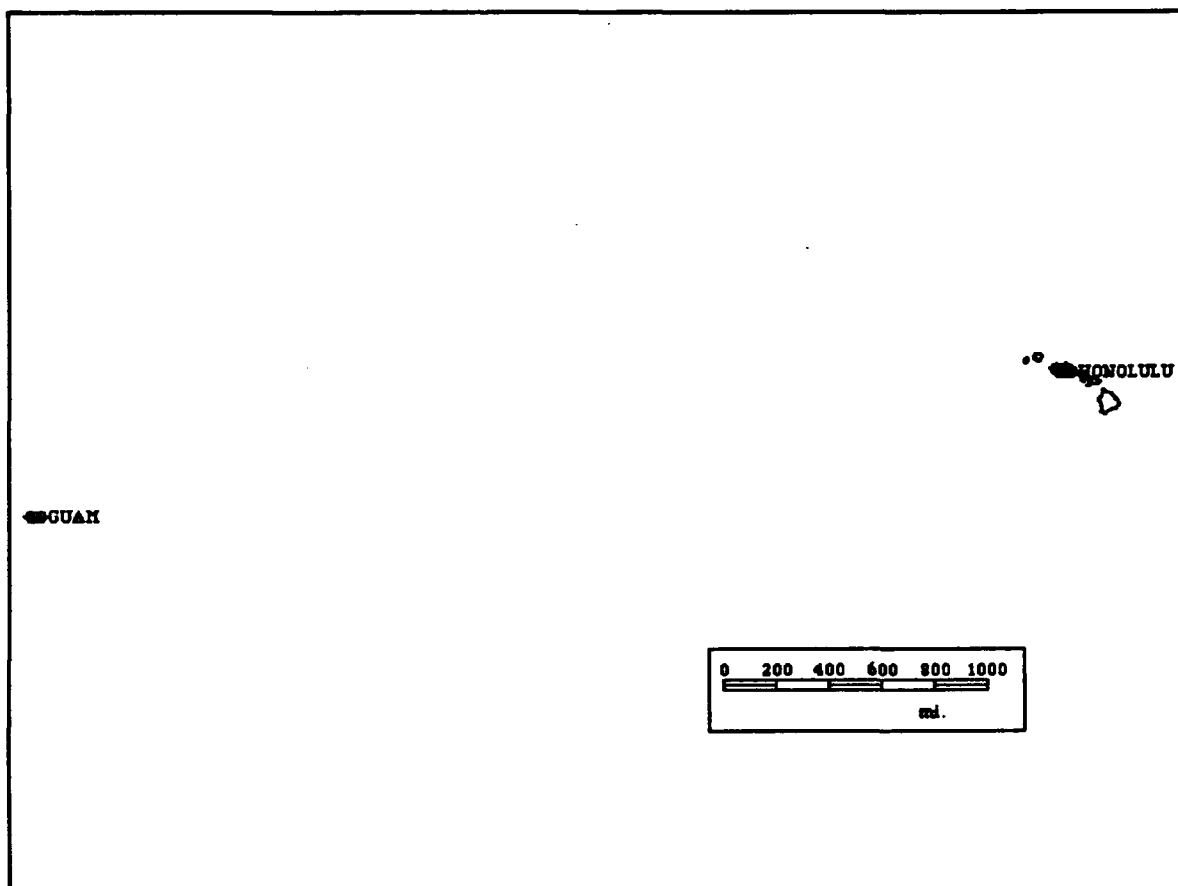
Same time servicing (subtract)	= 2:42	

Total ATON hours used	= 1038:41 ^{1,2}	
	=====	
Historical ATON hours used	= 1000:00	
	=====	

¹plus 250 lighthouse maintenance hours.

²Difference of five hours from Volume I's Table 6-1 is attributable to the use of different versions of the District 13 buoy tender network. The difference is not significant and does not affect fleet size and mix results.

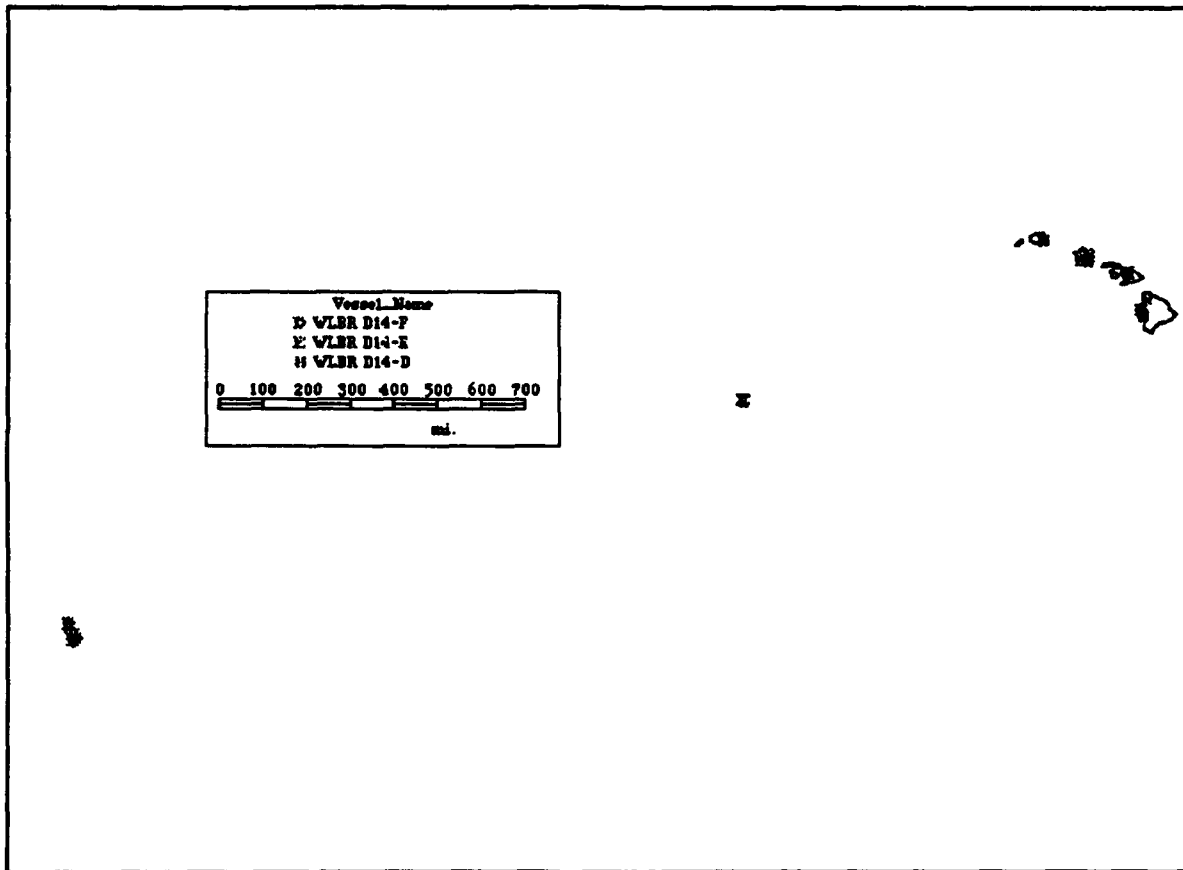
2.8 DISTRICT 14



<u>Home Port</u>	<u>Type</u>	<u>Nav aids</u>	<u>Hours</u>
HONOLULU	WLBR	139	803
HONOLULU	WLBR	145	1181
GUAM	WLBR	132	708
	Totals	416	2692
	Avg	139	897

2.8.1 WLBR (Mallow) Honolulu, HI

Note: The WLBR Honolulu was partitioned into WLBR D14-D, WLBR D14-E, and WLBR D14-F to account for different concepts and areas of operations.



14:5:51

Sunday 5/3/1992

ATON SERVICE FORCE MIX DSS

MALLOW-H.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D14-D
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Navaids assigned	=	67	(0 Seasonal)
Total Navaids serviced	=	67	(0 Seasonal)
Total trips	=	4	
Underway days	=	19	
Deck Space Available	=	10000	
Deck Space Used	=	1194.15	(11.9% utilization)
Avg buoys / trip	=	16.8	
Avg underway days / trip	=	4.8	
Total transit time	=	61:28	
Total service time	=	167:23	
Total idle time (not added)	=	150:44	
Total time			= 228:51

Total short transits	=	59	
Total length of short trips	=	2:12	
Additional prep/deprep time	=		27:18

Avg service time / navaid	=	2:30	
Avg transit time / navaid	=	1:19	
Avg total time / navaid	=	3:49	
Total discrepancies	=	2.56701	
Computed discrepancy hours	=		9:49

Additional Structure Visits	=	0	
Additional Structure hours	=		0:00

Total weather hours	=		27:46

Same time servicing (subtract)	=		90:39

Total ATON hours used	=	203:05	*****
Historical ATON hours used	=	1260:00	*****

10:16:3
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

MALLOW-J.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D14-E
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	30	(0 Seasonal)
Total Nav aids serviced	=	30	(0 Seasonal)
Total trips	=	1	
Underway days	=	11	
Deck Space Available	=	10000	
Deck Space Used	=	0	(0.0% utilization)
Avg buoys / trip	=	30.0	
Avg underway days / trip	=	11.0	
Total transit time	=	109:27	
Total service time	=	66:34	
Total idle time (not added)	=	59:09	
Total time			= 176:01

Total short transits	=	29	
Total length of short trips	=	0:55	
Additional prep/deprep time			= 13:35

Avg service time / nav aid	=	2:13	
Avg transit time / nav aid	=	4:06	
Avg total time / nav aid	=	6:19	
Total discrepancies	=	0.123711	
Computed discrepancy hours	=	0:47	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	13:35	

Same time servicing (subtract)	=	32:55	

Total ATON hours used = 171:04

Historical ATON hours used = 1260:00

10:16:12
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

MALLOW-M.REP

VESSEL SUMMARY REPORT

Platform Characteristics

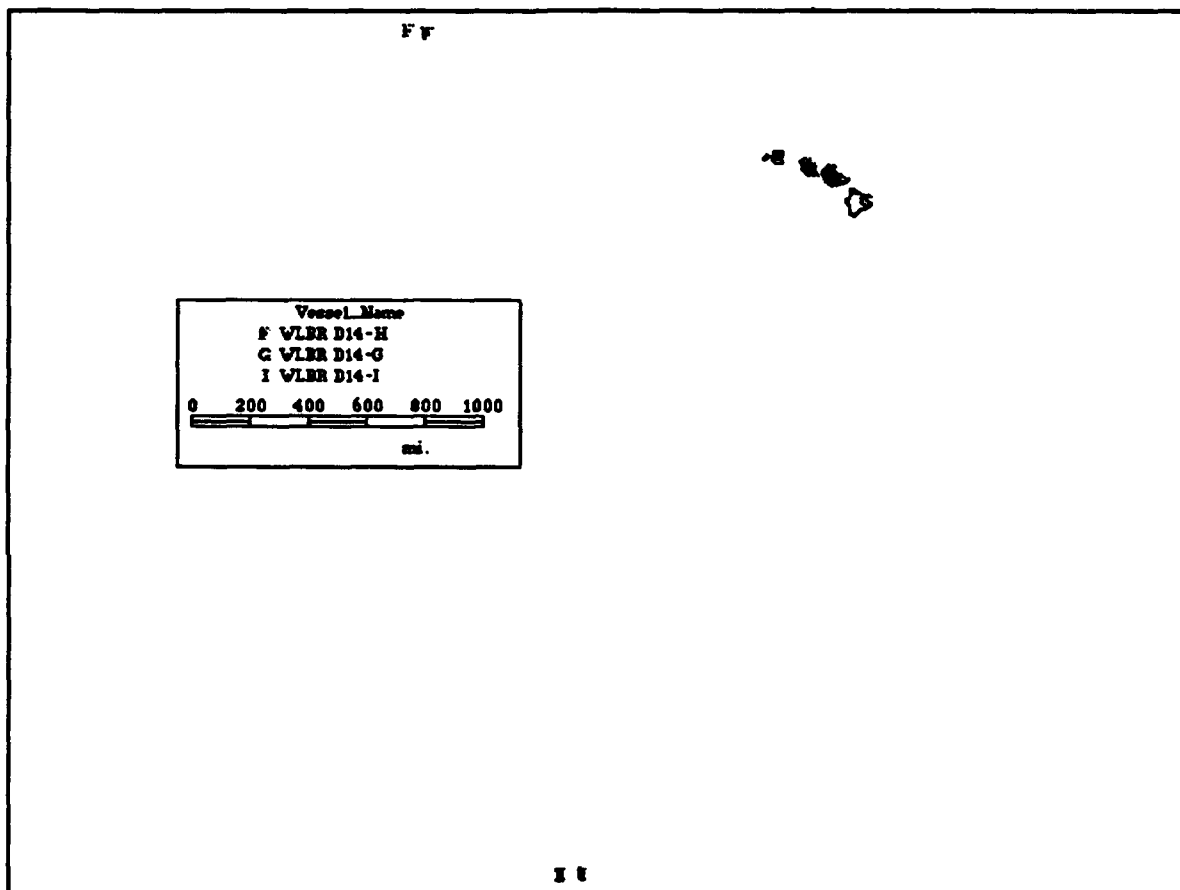
- WLBR WLBR D14-F
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 960 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Navaids assigned	=	41	(0 Seasonal)
Total Navaids serviced	=	41	(0 Seasonal)
Total trips	=	1	
Underway days	=	23	
Deck Space Available	=	10000	
Deck Space Used	=	1234.5	(12.3% utilization)
Avg buoys / trip	=	41.0	
Avg underway days / trip	=	23.0	
Total transit time	=	332:30	
Total service time	=	97:38	
Total idle time (not added)	=	81:21	
Total time	=	430:09	
Total short transits	=	36	
Total length of short trips	=	3:00	
Additional prep/deprep time	=	15:00	
Avg service time / navaid	=	2:23	
Avg transit time / navaid	=	8:29	
Avg total time / navaid	=	10:51	
Total discrepancies	=	0.309278	
Computed discrepancy hours	=	3:21	
Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	
Total weather hours	=	18:39	
Same time servicing (subtract)	=	38:23	
Total ATON hours used	=	428:46	*****
Historical ATON hours used	=	1260:00	*****

2.8.2 WLBR (Sassafras) Honolulu, HI

Note: The WLBR Honolulu was partitioned into WLBR D14-G, WLBR D14-H, and WLBR D14-I to account for different concepts and areas of operations.



14:6:33
Sunday 5/3/1992

ATON SERVICE FORCE MIX DSS

SASSAF-H.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D14-G
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	= 99 (0 Seasonal)	
Total Nav aids serviced	= 99 (0 Seasonal)	
Total trips	= 5	
Underway days	= 25	
Deck Space Available	= 12500	
Deck Space Used	= 1253.1 (10.0% utilization)	
Avg buoys / trip	= 19.8	
Avg underway days / trip	= 5.0	
Total transit time	= 64:15	
Total service time	= 248:21	
Total idle time (not added)	= 193:14	
Total time		= 312:37

Total short transits	= 85	
Total length of short trips	= 3:19	
Additional prep/deprep time		= 39:11

Avg service time / nav aid	= 2:31	
Avg transit time / nav aid	= 1:03	
Avg total time / nav aid	= 3:33	
Total discrepancies	= 19.6994	
Computed discrepancy hours		= 70:00

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 55:07

Same time servicing (subtract)		= 44:38

Total ATON hours used		= 432:17

Historical ATON hours used		= 1260:00

10:16:25

Saturday 5/2/1992

ATON SERVICE FORCE NIX DSS

SASSAF-M.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D14-H
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	28	(0 Seasonal)
Total Nav aids serviced	=	28	(0 Seasonal)
Total trips	=	1	
Underway days	=	13	
Deck Space Available	=	10000	
Deck Space Used	=	480	(4.8% utilization)
Avg buoys / trip	=	28.0	
Avg underway days / trip	=	13.0	
Total transit time	=	183:10	
Total service time	=	68:43	
Total idle time (not added)	=	54:04	
Total time			= 251:53

Total short transits	=	25	
Total length of short trips	=	0:30	
Additional prep/deprep time	=		12:00

Avg service time / nav aid	=	2:27	
Avg transit time / nav aid	=	6:58	
Avg total time / nav aid	=	9:25	
Total discrepancies	=	1.24855	
Computed discrepancy hours	=		11:46

Additional Structure Visits	=	0	
Additional Structure hours	=		0:00

Total weather hours	=		18:01

Same time servicing (subtract)	=		13:18

Total ATON hours used	=	280:21	*****
Historical ATON hours used	=	1260:00	*****

10:16:33
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

SASSAF-S.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D14-I
- Homeport HONOLULU, HI
- 13 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	= 18 (0 Seasonal)	
Total Nav aids serviced	= 18 (0 Seasonal)	
Total trips	= 1	
Underway days	= 19	
Deck Space Available	= 10000	
Deck Space Used	= 0 (0.0% utilization)	
Avg buoys / trip	= 18.0	
Avg underway days / trip	= 19.0	
Total transit time	= 353:44	
Total service time	= 40:15	
Total idle time (not added)	= 43:02	
Total time		= 393:59

Total short transits	= 13	
Total length of short trips	= 0:47	
Additional prep/deprep time		= 5:43

Avg service time / nav aid	= 2:14	
Avg transit time / nav aid	= 19:58	
Avg total time / nav aid	= 22:12	
Total discrepancies	= 3.05202	
Computed discrepancy hours		= 67:46

Additional Structure Visits	= 0	
Additional Structure hours		= 0:00

Total weather hours		= 6:53

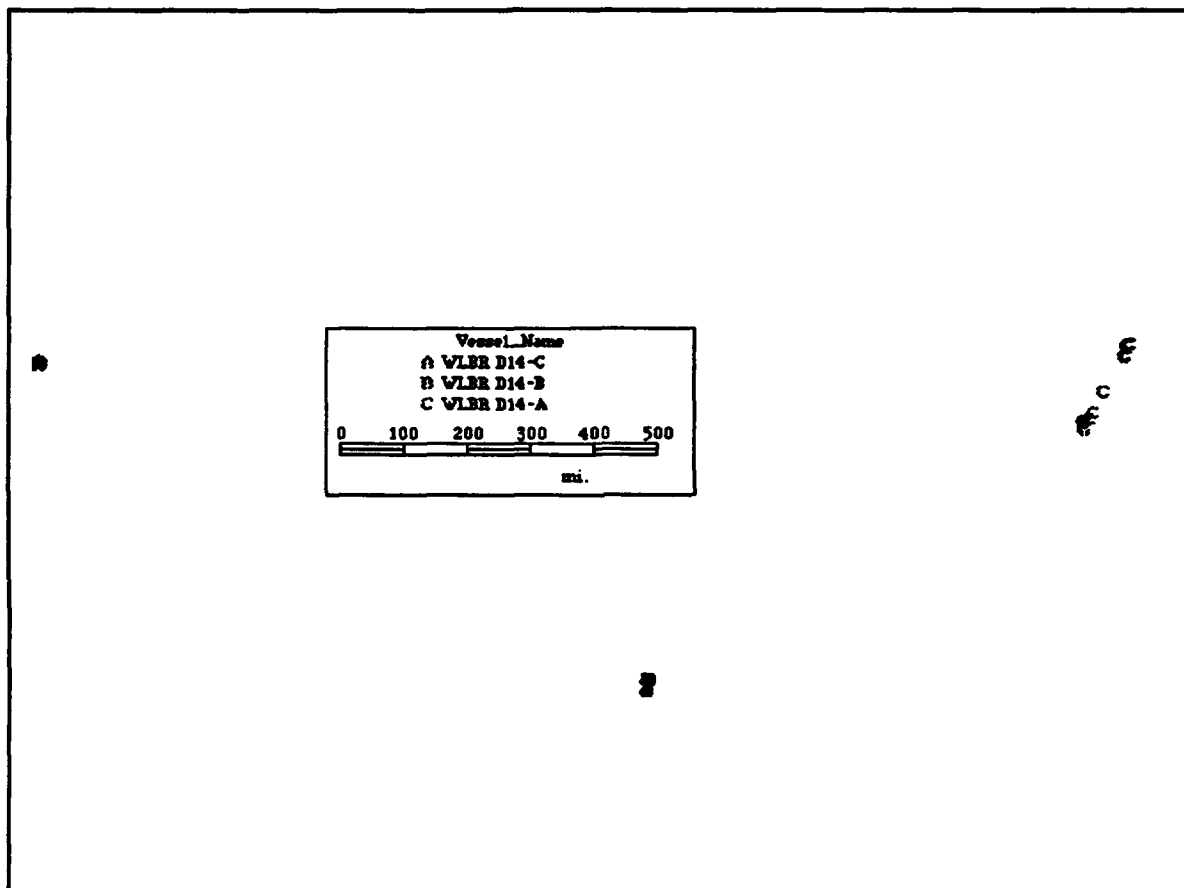
Same time servicing (subtract)		= 6:40

Total ATON hours used = 467:41
=====

Historical ATON hours used = 1260:00
=====

2.8.3 WLBR Guam

Note: The WLBR Guam was partitioned into WLBR D14-A, WLBR D14-B, and WLBR D14-C to account for different concepts and areas of operations.



14:5:21
Sunday 5/3/1992

ATON SERVICE FORCE MIX DSS

BASSWD-G.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D14-A
- Homeport GUAM (D14)
- 13 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 2500 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 10 days)

Summary Statistics

Total Nav aids assigned	=	54	(0 Seasonal)
Total Nav aids serviced	=	54	(0 Seasonal)
Total trips	=	4	
Underway days	=	17	
Deck Space Available	=	10000	
Deck Space Used	=	933	(9.3% utilization)
Avg buoys / trip	=	13.5	
Avg underway days / trip	=	4.3	
Total transit time	=	79:38	
Total service time	=	140:30	
Total idle time (not added)	=	150:02	
Total time	=	220:08	

Total short transits	=	46	
Total length of short trips	=	2:11	
Additional prep/deprep time	=	20:49	

Avg service time / nav aid	=	2:36	
Avg transit time / nav aid	=	1:52	
Avg total time / nav aid	=	4:28	
Total discrepancies	=	10.9639	
Computed discrepancy hours	=	48:55	

Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	13:49	

Same time servicing (subtract)	=	55:26	

Total ATON hours used	=	248:16	
=====			
Historical ATON hours used	=	1260:00	
=====			

10:15:57

Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

BASSWD-P.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D14-C
- Homeport GUAM (D14)
- 13 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Nav aids assigned	=	16	(0 Seasonal)
Total Nav aids serviced	=	16	(0 Seasonal)
Total trips	=	1	
Underway days	=	13	
Deck Space Available	=	10000	
Deck Space Used	=	1122.75	(11.2% utilization)
Avg buoys / trip	=	16.0	
Avg underway days / trip	=	13.0	
Total transit time	=	208:33	
Total service time	=	40:30	
Total idle time (not added)	=	28:09	
Total time			= 249:03

Total short transits	=	15	
Total length of short trips	=	1:28	
Additional prep/deprep time	=		6:02

Avg service time / nav aid	=	2:32	
Avg transit time / nav aid	=	13:25	
Avg total time / nav aid	=	15:57	
Total discrepancies	=	1.25301	
Computed discrepancy hours	=		19:59

Additional Structure Visits	=	0	
Additional Structure hours	=		0:00

Total weather hours	=		2:22

Same time servicing (subtract)	=		6:26

Total ATON hours used	=	271:00	
			=====
Historical ATON hours used	=	1260:00	
			=====

10:15:32
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

BASSWD-S.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D14-B
- Homeport GUAM (D14)
- 13 knot average transit speed
- 720 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 365 days)

Summary Statistics

Total Navais assigned	=	62 (0 Seasonal)	
Total Navais serviced	=	62 (0 Seasonal)	
Total trips	=	1	
Underway days	=	15	
Deck Space Available	=	10000	
Deck Space Used	=	261 (2.6% utilization)	
Avg buoys / trip	=	62.0	
Avg underway days / trip	=	15.0	
Total transit time	=	99:59	
Total service time	=	108:48	
Total idle time (not added)	=	109:31	
Total time			= 208:46

Total short transits	=	61	
Total length of short trips	=	2:17	
Additional prep/deprep time			= 28:13

Avg service time / navaid	=	1:45	
Avg transit time / navaid	=	2:04	
Avg total time / navaid	=	3:49	
Total discrepancies	=	0.783133	
Computed discrepancy hours	=		= 3:00

Additional Structure Visits	=	0	
Additional Structure hours	=		= 0:00

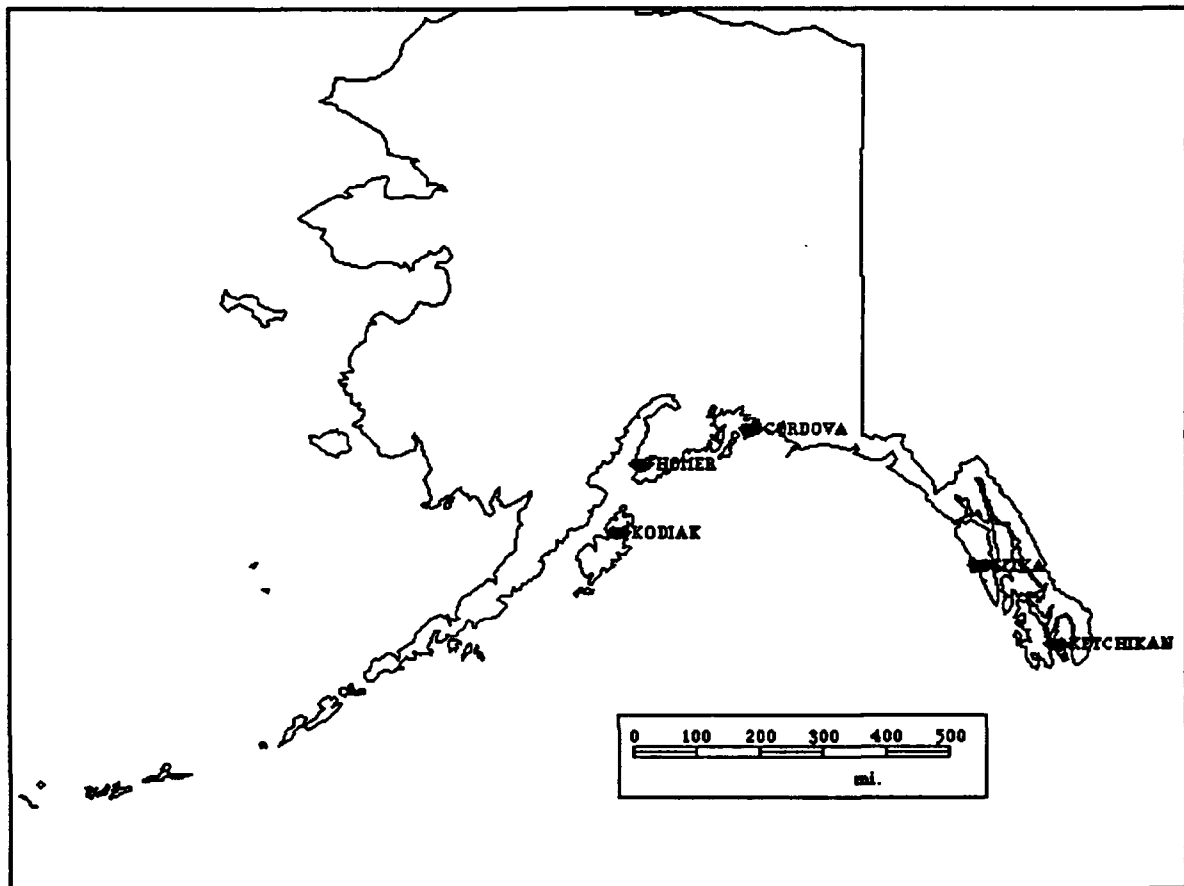
Total weather hours	=		= 23:49

Same time servicing (subtract)	=		= 74:29

Total ATON hours used = 189:19
=====

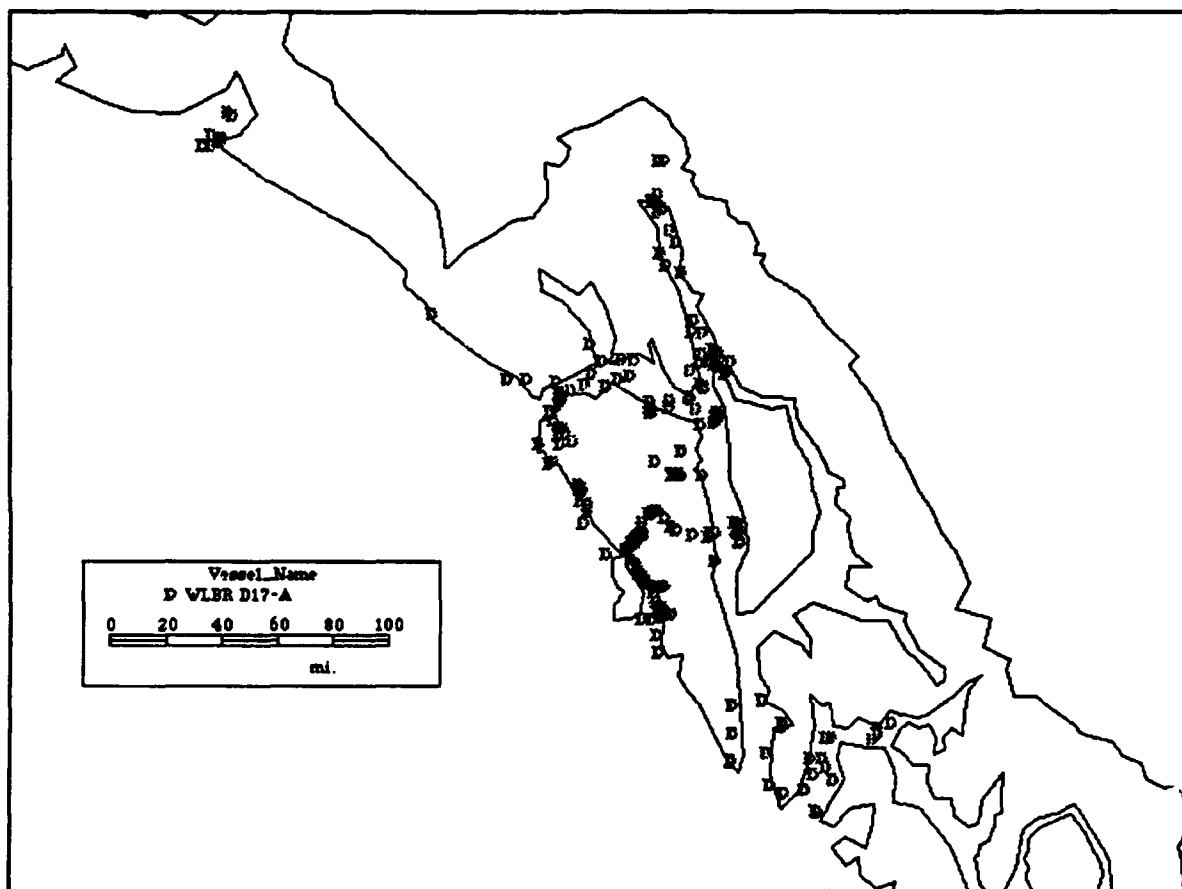
Historical ATON hours used = 1260:00
=====

2.9 DISTRICT 17



Home Port	Type	Nav aids	Hours
KETCHIKAN	WLBR	259	1190
SITKA	WLBR	240	932
CORDOVA	WLBR	164	1146
HOMER	WLBR	187	1201
KODIAK	----		
KODIAK	WLBR	94	1234
Totals		944	5703
Avg		189	1141

2.9.1 WLBR Sitka, AK



10:47:25
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-17A.REP

VESSEL SUMMARY REPORT

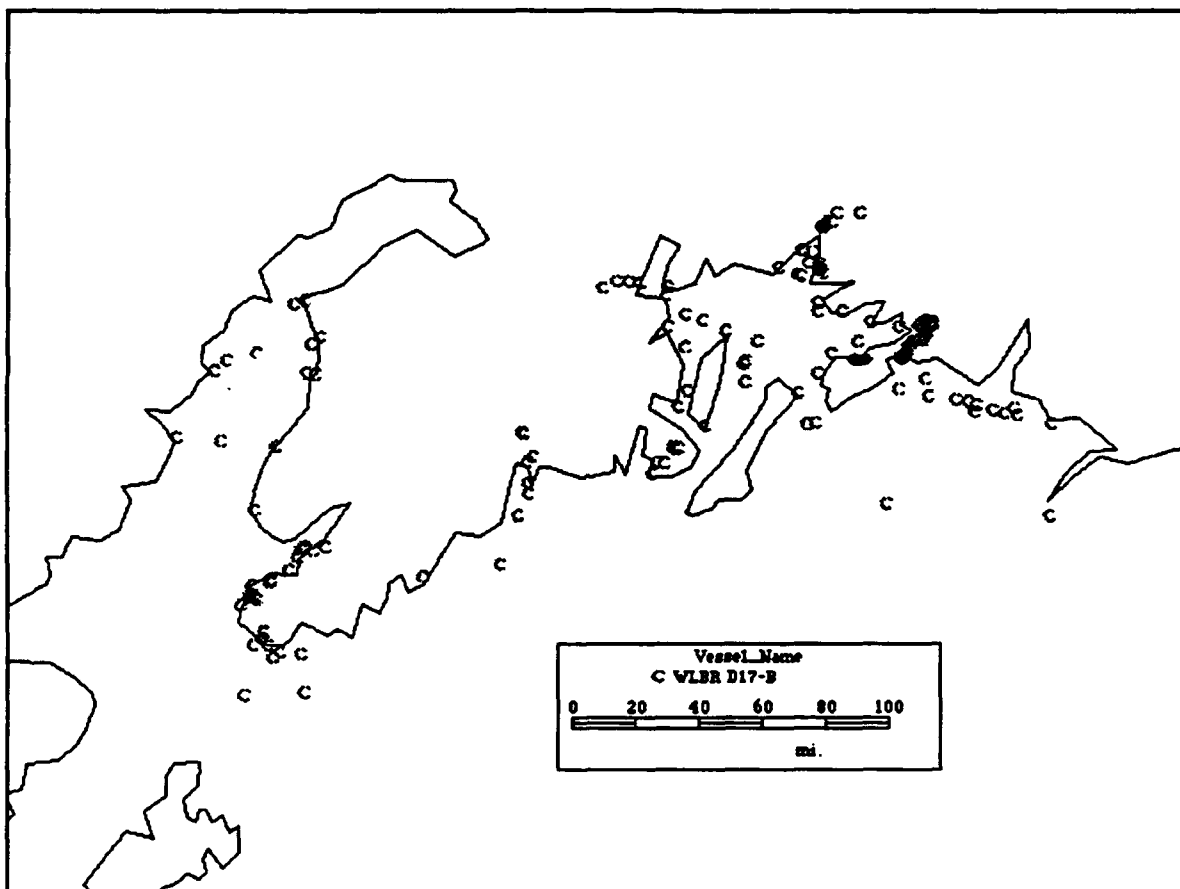
Platform Characteristics

- WLBR WLBR D17-A
- Homeport SITKA, AK
- 13 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 240 (4 Seasonal)	
Total Nav aids serviced	= 240 (4 Seasonal)	
Total trips	= 9	
Underway days	= 44	
Deck Space Available	= 90000	
Deck Space Used	= 4557.9 (5.1% utilization)	
Avg buoys / trip	= 27.1	
Avg underway days / trip	= 4.9	
Total transit time	= 175:45	
Total service time	= 354:23	
Total idle time	= 319:20	
Total time	= 849:28	-----
Total short transits	= 172	
Total length of short trips	= 23:38	
Additional prep/deprep time	= 62:22	-----
Avg service time / nav aid	= 1:27	
Avg transit time / nav aid	= 0:59	
Avg total time / nav aid	= 3:44	
Total discrepancies	= 15.1078	
Computed discrepancy hours	= 56:28	-----
Additional Structure Visits	= 0.9	
Additional Structure hours	= 2:36	-----
Total weather hours	= 141:34	-----
Same time servicing (subtract)	= 180:12	-----
Total ATON hours used	= 932:17	=====
Historical ATON hours used	= 1260:00	=====

2.9.2 WLBR Cordova, AK



11:7:52
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-17B.REP

VESSEL SUMMARY REPORT

Platform Characteristics

- WLBR WLBR D17-B
- Homeport CORDOVA, AK
- 13 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

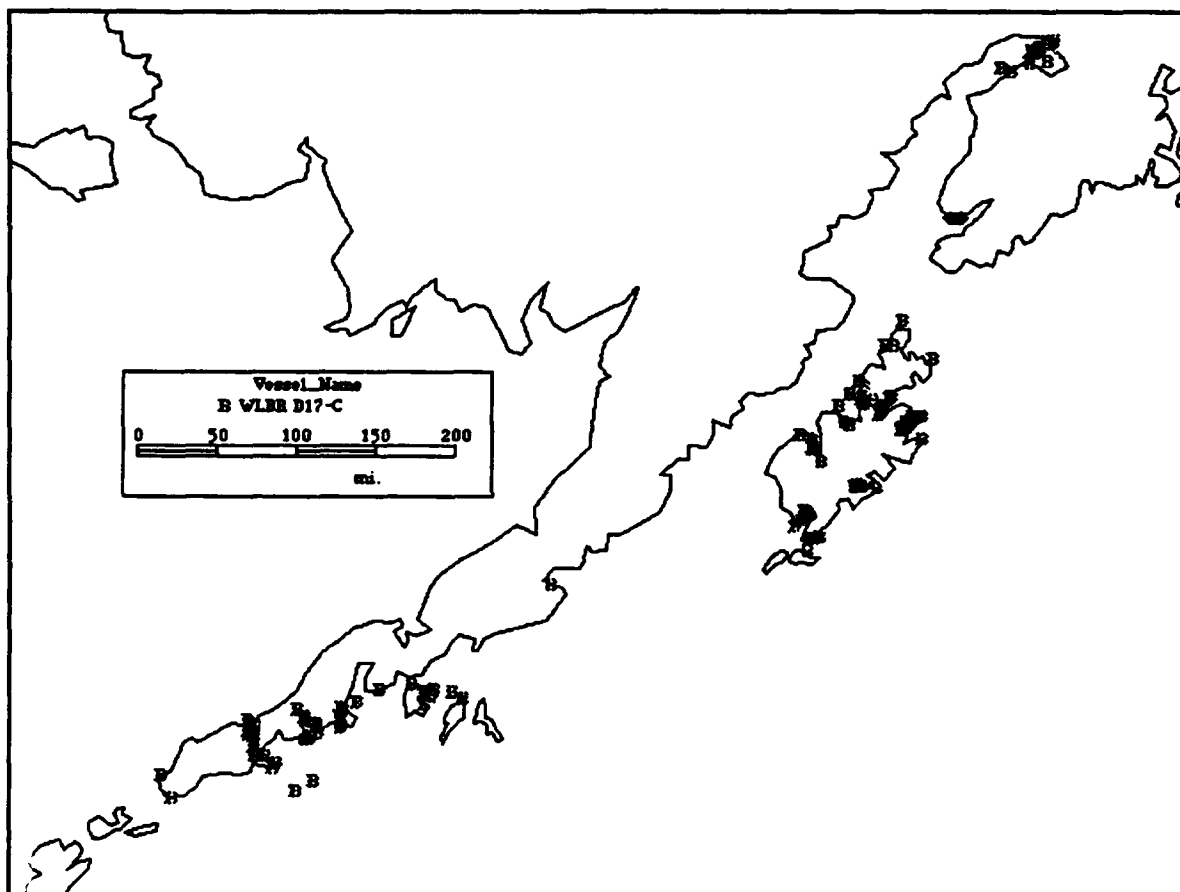
Summary Statistics

Total Nav aids assigned	= 164	(26 Seasonal)
Total Nav aids serviced	= 164	(26 Seasonal)
Total trips	= 9	
Underway days	= 39	
Deck Space Available	= 90000	
Deck Space Used	= 4117.05	(4.6% utilization)
Avg buoys / trip	= 21.1	
Avg underway days / trip	= 4.3	
Total transit time	= 206:25	
Total service time	= 285:39	
Total idle time	= 255:47	
Total time	= 747:52	
Total short transits	= 128	
Total length of short trips	= 18:01	
Additional prep/deprep time	= 45:59	
Avg service time / nav aid	= 1:30	
Avg transit time / nav aid	= 1:20	
Avg total time / nav aid	= 4:11	
Total discrepancies	= 8.64483	
Computed discrepancy hours	= 36:07	
Additional Structure Visits	= 19.2	
Additional Structure hours	= 62:18	
Total weather hours	= 267:16	
Same time servicing (subtract)	= 14:04	

Total ATON hours used = 1145:29

Historical ATON hours used = 1260:00

2.9.3 WLBR Homer, AK



11:14:45
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-17C.REP

VESSEL SUMMARY REPORT

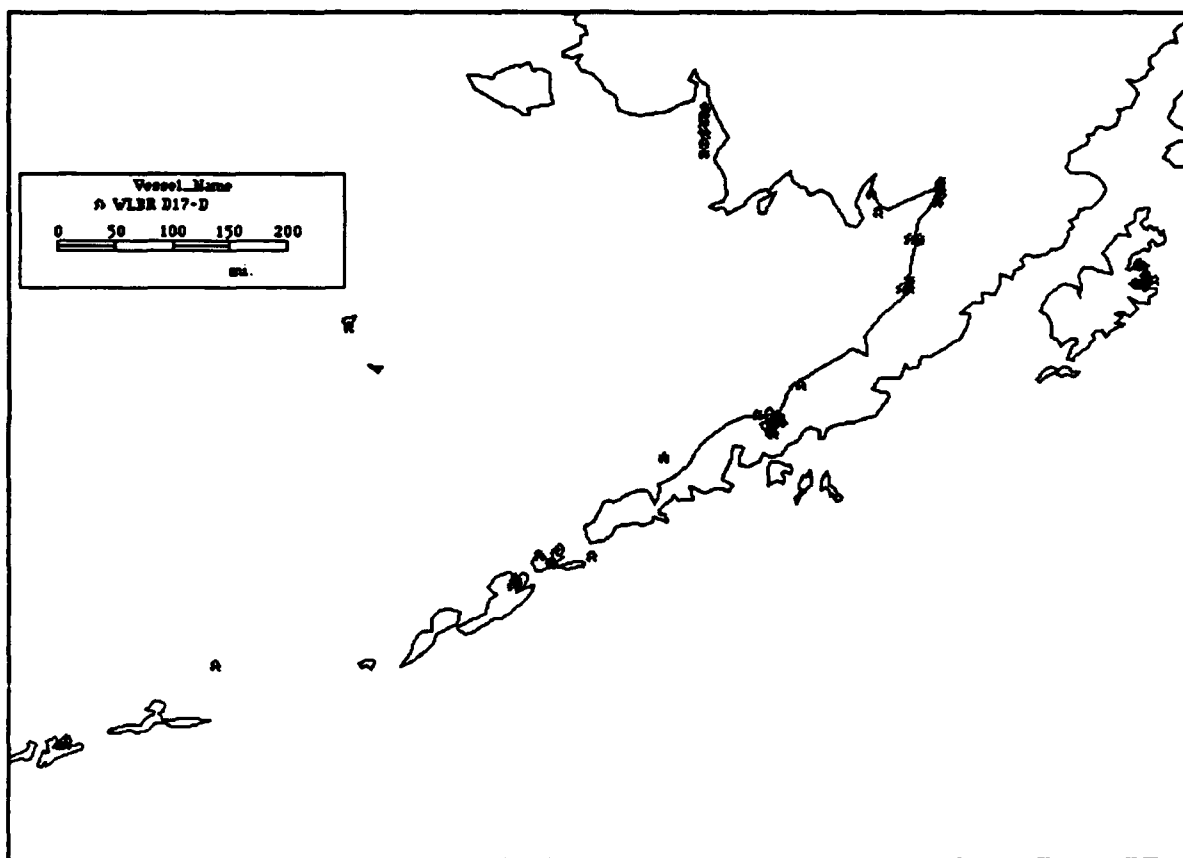
Platform Characteristics

- WLBR WLBR D17-C
- Homeport HOMER, AK
- 13 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
- (Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Navaids assigned	= 187	(4 Seasonal)
Total Navaids serviced	= 187	(4 Seasonal)
Total trips	= 5	
Underway days	= 40	
Deck Space Available	= 50000	
Deck Space Used	= 4330.8	(8.7% utilization)
Avg buoys / trip	= 38.2	
Avg underway days / trip	= 8.0	
Total transit time	= 263:18	
Total service time	= 250:17	
Total idle time	= 283:38	
Total time	= 797:14	
Total short transits	= 139	
Total length of short trips	= 13:57	
Additional prep/deprep time	= 55:33	
Avg service time / navaid	= 1:19	
Avg transit time / navaid	= 1:40	
Avg total time / navaid	= 4:28	
Total discrepancies	= 10.5192	
Computed discrepancy hours	= 46:58	
Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	
Total weather hours	= 332:42	
Same time servicing (subtract)	= 31:06	
Total ATON hours used	= 1201:21	*****
Historical ATON hours used	= 1260:00	*****

2.9.4 WLBR Kodiak, AK



11:21:7
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLBR-17D.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLBR WLBR D17-D
- Homeport KODIAK, AK
- 13 knot average transit speed
- 240 hour maximum cruise length
- work day is 6:00 to 18:00
- 10000 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	=	94	(28 Seasonal)
Total Nav aids serviced	=	94	(28 Seasonal)
Total trips	=	5	
Underway days	=	44	
Deck Space Available	=	50000	
Deck Space Used	=	4325.67	(8.7% utilization)
Avg buoys / trip	=	24.4	
Avg underway days / trip	=	8.8	
Total transit time	=	622:24	
Total service time	=	172:54	
Total idle time	=	172:10	
Total time			= 967:28

Total short transits	=	81	
Total length of short trips	=	10:17	
Additional prep/deprep time			= 30:13

Avg service time / nav aid	=	1:25	
Avg transit time / nav aid	=	5:21	
Avg total time / nav aid	=	8:11	
Total discrepancies	=	6.9	
Computed discrepancy hours	=	56:26	

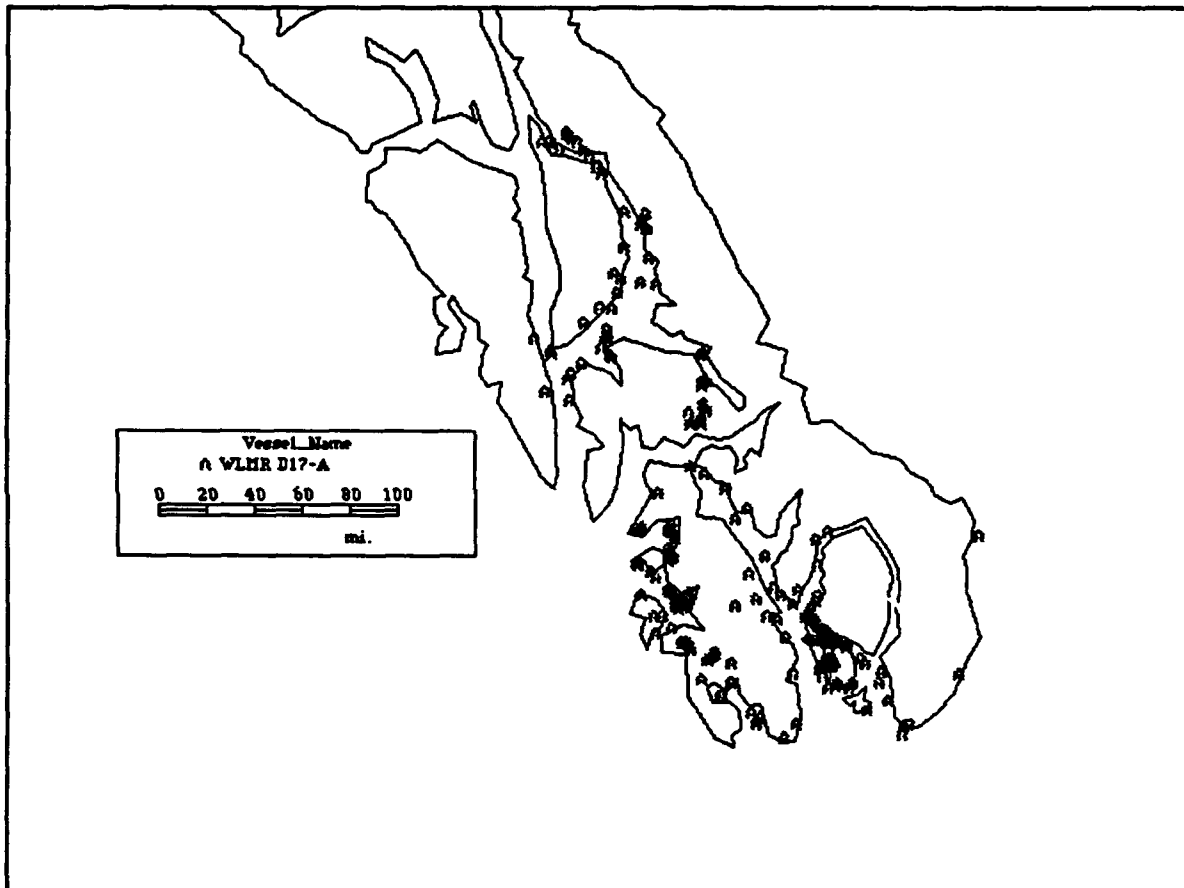
Additional Structure Visits	=	0	
Additional Structure hours	=	0:00	

Total weather hours	=	180:00	

Same time servicing (subtract)	=	0:00	

Total ATON hours used	=	1234:07	
			=====
Historical ATON hours used	=	1260:00	
			=====

2.9.5 WLMR Ketchikan, AK



10:16:41
Saturday 5/2/1992

ATON SERVICE FORCE MIX DSS

WLMR-17A.REP

VESSEL SUMMARY REPORT

=====

Platform Characteristics

- WLMR WLMR D17-A
- Homeport KETCHIKAN, AK
- 10 knot average transit speed
- 120 hour maximum cruise length
- work day is 6:00 to 16:00
- 4800 sq.ft. deck space available
- Prep/Deprep time 0:30
- Dispatch Tuesday 1/1/1991 at 6:00
(Window size = 365 days, Step size = 20 days)

Summary Statistics

Total Nav aids assigned	= 259	(1 Seasonal)
Total Nav aids serviced	= 259	(1 Seasonal)
Total trips	= 11	
Underway days	= 57	
Deck Space Available	= 52800	
Deck Space Used	= 1767.6	(3.3% utilization)
Avg buoys / trip	= 23.6	
Avg underway days / trip	= 5.2	
Total transit time	= 323:37	
Total service time	= 346:02	
Total idle time	= 536:55	
Total time		= 1206:34

Total short transits	= 170	
Total length of short trips	= 21:52	
Additional prep/deprep time		= 63:08

Avg service time / nav aid	= 1:20	
Avg transit time / nav aid	= 1:29	
Avg total time / nav aid	= 4:53	
Total discrepancies	= 15	
Computed discrepancy hours	= 73:15	

Additional Structure Visits	= 0	
Additional Structure hours	= 0:00	

Total weather hours	= 76:52	

Same time servicing (subtract)	= 230:03	

Total ATON hours used	= 1189:47	
		=====
Historical ATON hours used	= 1275:00	
		=====